

# PIONEERING SMART SOLAR POWER SOLUTIONS



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## **SOLAR POWER SOLUTIONS | 2026**



# ABOUT APsolway

Zhejiang APsolway Technology Co., Ltd. (APsolway)

APsolway is a subsidiary of Altenergy Power System Inc. (SSE STAR Market, Stock Code: 688348) and has been deeply involved in the global renewable energy industry for more than 10 years. Upholding the vision of "delivering high-quality products and meeting people's power needs for off-grid living," the company provides integrated intelligent PV and energy-storage system solutions to global customers, covering solar inverters, residential ESS, commercial & industrial ESS, and vehicle-mounted mobile energy systems.

As a national high-tech enterprise integrating R&D, manufacturing, and sales, APsolway is a well-recognized ODM manufacturer and SKD supplier, fully committed to supporting the growth of our customers' brands. We focus on offering cost-effective, high-efficiency, and intelligent PV and energy-storage products to global users.

APsolway currently operates a 47,000 m<sup>2</sup> smart manufacturing facility, equipped with advanced R&D capabilities, intelligent production systems, and high-efficiency delivery capacity. APsolway continuously develops cutting-edge core technologies and has obtained over 100 patents and more than 30 international patent certifications. The company has been repeatedly recognized as a National High-Tech Enterprise and a National "Little Giant" Specialized and Innovative Enterprise.

To better serve the global market, APsolway conducts R&D and manufacturing in China while establishing service centers in multiple countries for localized support. The headquarters is located in Jiaxing, China, with service centers in Leipzig, Germany (Europe), Burkina Faso (West Africa), Iran (Middle East), and Cambodia (South Asia). Additional branches and subsidiaries will continue to be established in other major international markets.



**10** years+  
Production Experience



**47000** m<sup>2</sup> +  
smart manufacturing facility



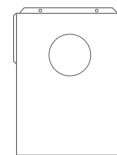
**100** +  
patents



**30** +  
international patent certifications

Perfect for home small business & commercial use

#### Single Phase Off-grid Inverter



#### APS Series

12/24/48V  
12/2.0/3.6/5/6.5/12kW

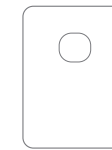
#### Micro - Inverters



#### EZ1 Series

230V Plug-In Solar  
600-2000W

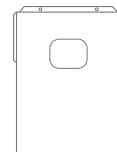
#### Three Phase Hybrid Inverter



#### HN Series

48V  
15kW

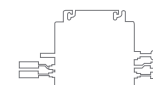
#### Single Phase Off-grid Inverter



#### WPS Series

24/48V  
3.6/5/6.5/12kW

#### Micro - Inverters



#### VN Series

18V  
300W-2000W

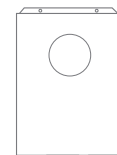
#### Hybrid Battery



#### Hybrid Battery

2500W  
51.2V

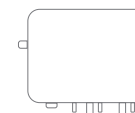
#### Solar Battery Hybrid Controller



#### AHS Series

12/24/48V  
6.3/10.2/12kW

#### Single-Phase Hybrid Microinverter for Storage



#### EZOG Series

12-48V  
1200VA

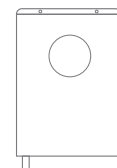
#### Micro DC ESS Balcony Micro Energy Storage



#### DC battery

2400W  
10kWh

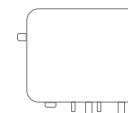
#### Split Phase Hybrid Inverter



#### AHS-SP Series

12/24/48V  
3.6/6.3/8.5/12kW

#### Single-Phase Hybrid Microinverter for Storage



#### EZOG-LV Series

12-48V  
1000VA

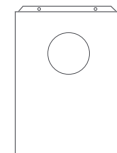
#### DC Charging Pile



#### DC Charging Pile

120/160/200/240kW  
DC 200-1000V

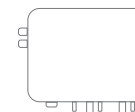
#### Solar Battery Hybrid Controller



#### AHS-LV Series

12/24/48V  
5kW

#### Single-Phase Hybrid Microinverter for Storage



#### EZHI Series

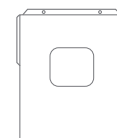
12-48V  
1200VA

#### Android System AC Chargers



#### Wall-mounted AC Chargers

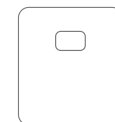
#### Split Phase Hybrid Inverter



#### SPH-SP Series

24/48V  
3.6/6.2/8.5/10.2/12kW

#### Single Phase & LV Battery



#### GE Series

220/230/240V  
3-12kW

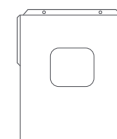
#### Single Phase Smart Meter Device



#### CT Series

50A  
11.5kW

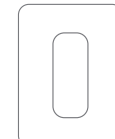
#### Single Phase Hybrid Inverter



#### SPH-LV Series

24/48V  
3/3.6/5kW

#### Single Phase Hybrid Inverter



#### GN Series

230V / 220-415V  
3-15kW

#### Single Phase/three-phase water lifting inverter



#### SPRING Series

# APS Series

## Single Phase Off-grid Inverter

It is applicable to 208/220/230/240V voltage systems

### 1200W-12000W Freedom Of Choice



### APP CONTROL

You can monitor  
your power production  
in real-time via the app



### DUAL Dual AC Output (≥2000W)



IP43

-40°C

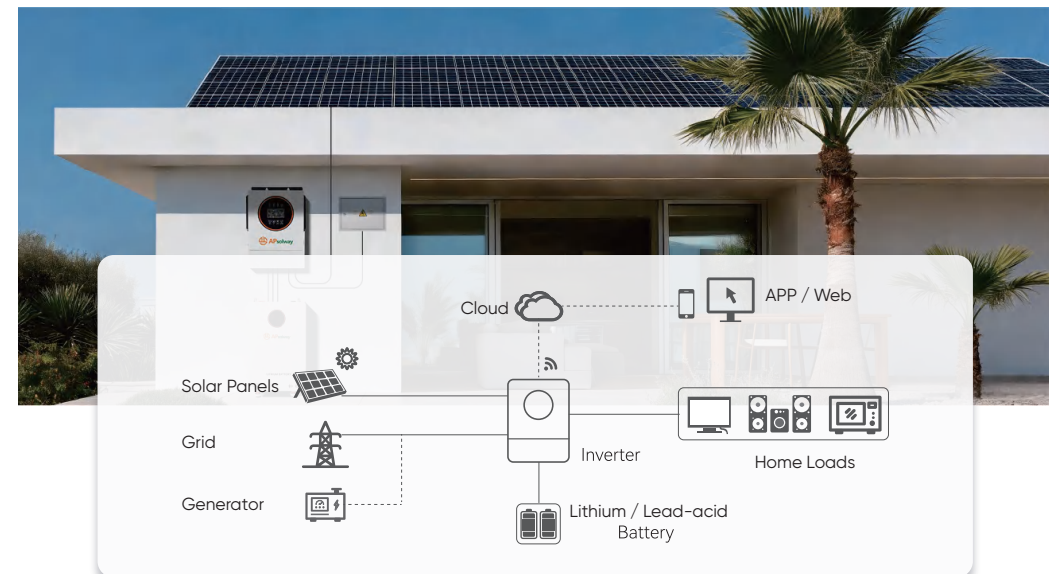
+60°C

Maintains near-full performance even at  
-40°C to 60°C

2 Years Warranty



### System Diagram





# APS1200-2000

## Single Phase Off-grid Inverter

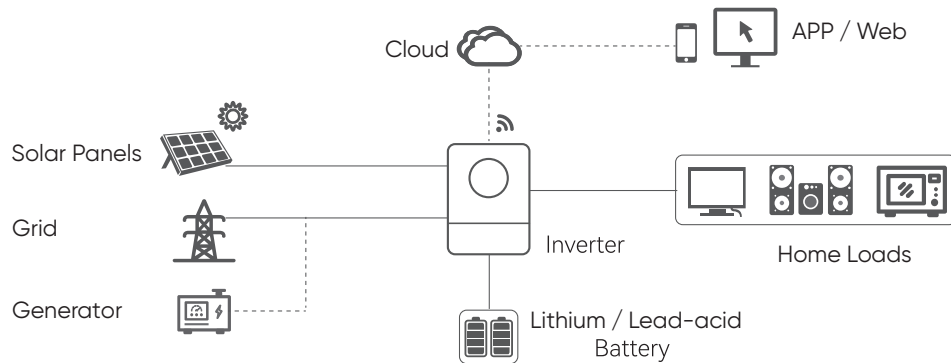
It is applicable to 208/220/230/240V voltage systems



- Built-in 100A Solar Charger.
- Wide PV Input Voltage Range 17~400V.
- Dual AC Output(≥2000W).
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Detachable Dust Cover.
- WiFi (optional/built-in/external), 4G(optional).
- Feed-in to Grid(≥2000W).



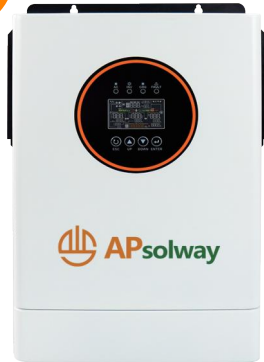
### System Diagram



### Technical Data

| MODEL                              | APS1200-12                                       |                                              | APS2000-12 |  |
|------------------------------------|--------------------------------------------------|----------------------------------------------|------------|--|
| AC Input                           |                                                  |                                              |            |  |
| Rated Input Voltage (VAC)          | 208 / 220 / 230 / 240; L + N + PE                |                                              |            |  |
| Voltage Range (VAC)                | 90~280±3 (normal mode); 170~280±3 (UPS mode)     | 90~280 (APP/GEN mode); 170~264 (UPS mode)    |            |  |
| Frequency (Hz)                     | 50 / 60 (Auto Adaptive)                          |                                              |            |  |
| AC Output                          |                                                  |                                              |            |  |
| Rated Capacity (kW)                | 1.2                                              | 2.0                                          |            |  |
| Surge Power (kVA)                  | 2.4                                              | 4.0                                          |            |  |
| Voltage (VAC)                      | 208 / 220 / 230 / 240                            |                                              |            |  |
| Power Factor (PF)                  | 1                                                |                                              |            |  |
| Frequency                          | 50/60Hz±0.1%                                     |                                              |            |  |
| Switch Time (ms)                   | 10 (APP/UPS/GEN mode)                            | 10 (APP/UPS mode) / 20 (GEN mode)            |            |  |
| Wave Form                          | Pure Sine Wave                                   |                                              |            |  |
| Overload Capacity (Battery Mode)   | 60s@102%-120% load; 10s@120%-20% load;           | long term@102%-125% load; 10s@125%-250% load |            |  |
| Max. Efficiency (Battery Mode)     | 90%@12VDC                                        | 91%@12VDC                                    |            |  |
| Parallel Quantity                  | NA                                               |                                              |            |  |
| Charger (PV / AC)                  |                                                  |                                              |            |  |
| Solar Charger Type                 | MPPT                                             |                                              |            |  |
| Max PV input current / power       | 18A / 800W                                       | 18A / 3000W                                  |            |  |
| MPPT Range@Operating Voltage (VDC) | 17~115                                           | 30~400                                       |            |  |
| Max PV Open Circuit Voltage (VDC)  | 115                                              | 450                                          |            |  |
| Max PV Charge Current (A)          | 50                                               | 100                                          |            |  |
| Max AC Charge Current (A)          | 50                                               | 100                                          |            |  |
| Max. Charge Current (PV + AC) (A)  | 100                                              | 100                                          |            |  |
| Battery                            |                                                  |                                              |            |  |
| Rated Voltage (VDC)                | 12                                               | 12                                           |            |  |
| Floating Charge Voltage (VDC)      | 13.8                                             | Max. Charging Current (A)                    | 100        |  |
| Overcharge Protection (VDC)        | 15                                               | Max. Discharging Current (A)                 | 150        |  |
| Battery Type                       | Lithium and Lead-acid                            |                                              |            |  |
| Interface                          |                                                  |                                              |            |  |
| HMI                                | LCD/RGB                                          |                                              |            |  |
| Interface                          | RS485 / CAN / RS232                              | RS485 / CAN / RS232 / CT(optional)           |            |  |
| Monitoring                         | WiFi (optional/built-in/external) , 4G(optional) |                                              |            |  |
| General Data                       |                                                  |                                              |            |  |
| Ingress Protection                 | IP43                                             |                                              |            |  |
| Warranty                           | 2 years                                          |                                              |            |  |
| Operating Temperature              | -10 °C ~ 60 °C                                   |                                              |            |  |
| Relative Humidity                  | 5% ~ 95% (Non-condensing)                        |                                              |            |  |
| Storage Temperature                | -15 °C ~ 60 °C                                   |                                              |            |  |
| Net Weight (kg)                    | 3.5                                              | 4.5                                          |            |  |
| Dimensions (W*H*D)                 | 347*236*91mm                                     | 331*270*100mm                                |            |  |
| Max. Operating Altitude            | 4000m (Derating above 1000m)                     |                                              |            |  |

Product specifications are subject to change without further notice.



# APS3600-5000

## Single Phase Off-grid Inverter

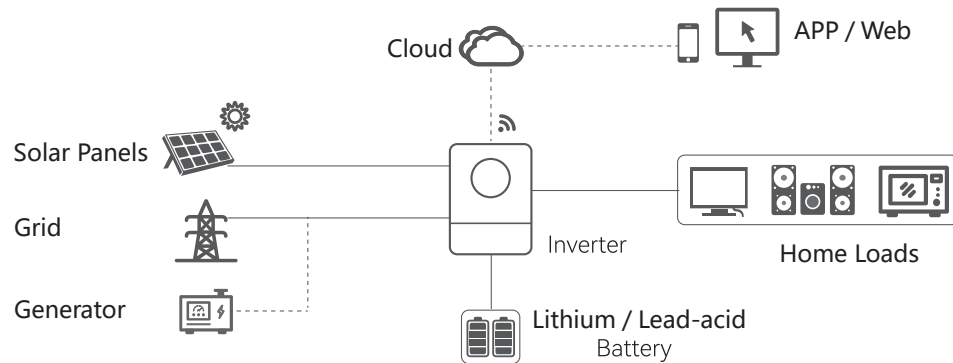
It is applicable to 208/220/230/240V voltage systems



- Built-in 160A Solar Charger.
- Wide PV Input Voltage Range 40~450V.
- 27A MAX PV Input.
- Dual AC Output.
- Support Meter/CT Connection.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Support Generator ATS Control.
- Feed-in to Grid.
- WiFi (optional/built-in/external), 4G(optional).



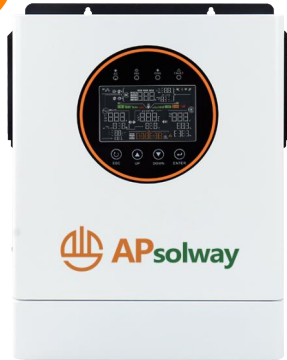
### System Diagram



### Technical Data

| MODEL                              | APS3600-24                                                                 | APS5000-24                        |
|------------------------------------|----------------------------------------------------------------------------|-----------------------------------|
| AC Input                           |                                                                            |                                   |
| Rated Input Voltage (VAC)          | 208 / 220 / 230 / 240; L + N + PE                                          |                                   |
| Voltage Range (VAC)                | 90~280±3 (normal mode); 170~280±3 (UPS mode)                               |                                   |
| Frequency (Hz)                     | 50 / 60 (Auto Adaptive)                                                    |                                   |
| AC Output                          |                                                                            |                                   |
| Rated Capacity (kW)                | 3.6                                                                        | 5                                 |
| Surge Power (kVA)                  | 7.2                                                                        | 10                                |
| Voltage (VAC)                      | 208 / 220 / 230 / 240                                                      |                                   |
| Power Factor (PF)                  | 1                                                                          |                                   |
| Frequency                          | 50/60Hz±0.1%                                                               |                                   |
| Switch Time (ms)                   | 10 (APP/UPS mode) / 20 (GEN mode)                                          | 10 (normal mode) / 10 (UPS mode)  |
| Wave Form                          | Pure Sine Wave                                                             |                                   |
| Overload Capacity (Battery Mode)   | 60s@102%-110% load; 10s@110%-130% load; 3s@130%-150% load; 0.2s@>150% load | 1min@102%-120%load, 10s>120% load |
| Max. Efficiency (Battery Mode)     | 92.7%@24VDC                                                                | 93.5%@24VDC                       |
| Parallel Operation Support         | NA                                                                         |                                   |
| Charger (PV / AC)                  |                                                                            |                                   |
| Solar Charger Type                 | MPPT                                                                       |                                   |
| Max PV input current / power       | 18A / 5000W                                                                | 27A / 9000W                       |
| MPPT Range@Operating Voltage (VDC) | 40~450                                                                     | 60~450                            |
| Max PV Open Circuit Voltage (VDC)  | 500                                                                        | 500                               |
| Max PV Charge Current (A)          | 100                                                                        | 160                               |
| Max AC Charge Current (A)          | 100                                                                        | 160                               |
| Max. Charge Current (PV + AC) (A)  | 100                                                                        | 160                               |
| Battery                            |                                                                            |                                   |
| Rated Voltage (VDC)                | 24                                                                         | 24                                |
| Floating Charge Voltage (VDC)      | 27                                                                         | 27                                |
| Overcharge Protection (VDC)        | 30.5                                                                       | 30.5                              |
| Battery Type                       | Lithium and Lead-acid                                                      |                                   |
| Interface                          |                                                                            |                                   |
| HMI                                | LCD/RGB                                                                    |                                   |
| Interface                          | RS485 / CAN / RS232                                                        | RS485 / CAN / RS232               |
| Monitoring                         | WiFi (optional/built-in/external), 4G(optional)                            |                                   |
| General Data                       |                                                                            |                                   |
| Ingress Protection                 | IP43                                                                       |                                   |
| Warranty                           | 2 years                                                                    |                                   |
| Operating Temperature              | -10 °C ~ 60 °C                                                             |                                   |
| Relative Humidity                  | 5% ~ 95% (Non-condensing)                                                  |                                   |
| Storage Temperature                | -15 °C ~ 60 °C                                                             |                                   |
| Net Weight (kg)                    | 6.0                                                                        | 7.7                               |
| Dimensions (W*H*D)                 | 420*284*94mm                                                               | 410*336*110mm                     |
| Max. Operating Altitude            | 4000m (Derating above 1000m)                                               |                                   |

Product specifications are subject to change without further notice.



# APS6500-6500Pro

## Single Phase Off-grid Inverter

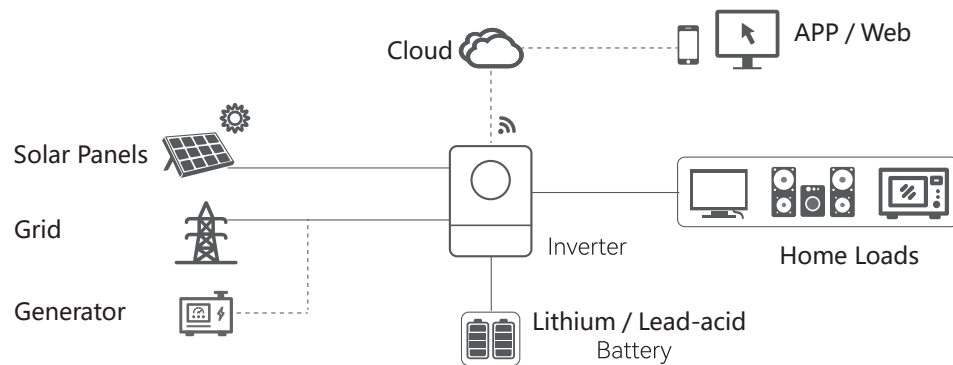
It is applicable to 208/220/230/240V voltage systems



- Built-in 120A Solar Charger.
- Wide PV Input Voltage Range 60~450V.
- 28A MAX PV Input.
- Dual AC Output.
- Support Meter/CT Connection.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Support Generator ATS Control.
- Feed-in to Grid.
- WiFi (optional/built-in/external), 4G(optional).



## System Diagram



## Technical Data

| MODEL                              | APS6500-48                                                                     | APS6500 Pro-48 |
|------------------------------------|--------------------------------------------------------------------------------|----------------|
| AC Input                           |                                                                                |                |
| Rated Input Voltage (VAC)          | 208 / 220 / 230 / 240; L + N + PE                                              |                |
| Voltage Range (VAC)                | 90~280±3 (normal mode); 170~280±3 (UPS mode)                                   |                |
| Frequency (Hz)                     | 50 / 60 (Auto Adaptive)                                                        |                |
| AC Output                          |                                                                                |                |
| Rated Capacity (kW)                | 6.5                                                                            |                |
| Surge Power (kVA)                  | 13                                                                             |                |
| Voltage (VAC)                      | 208 / 220 / 230 / 240                                                          |                |
| Power Factor (PF)                  | 1                                                                              |                |
| Frequency                          | 50/60Hz±0.1%                                                                   |                |
| Switch Time (ms)                   | 10 (normal mode) / 10 (UPS mode)                                               |                |
| Wave Form                          | Pure Sine Wave                                                                 |                |
| Overload Capacity (Battery Mode)   | 10min@102%-120% Load, 1min@120%-150% Load<br>10S@150%-200% Load, 5s@>200% Load |                |
| Max. Efficiency (Battery Mode)     | 93%@48VDC                                                                      |                |
| Parallel Operation Support         | NA                                                                             | Yes            |
| Charger (PV / AC)                  |                                                                                |                |
| Solar Charger Type                 | MPPT                                                                           |                |
| Max PV input current / power       | 28A / 9000W                                                                    |                |
| MPPT Range@Operating Voltage (VDC) | 60~450                                                                         |                |
| Max PV Open Circuit Voltage (VDC)  | 500                                                                            |                |
| Max PV Charge Current (A)          | 120                                                                            |                |
| Max AC Charge Current (A)          | 120                                                                            |                |
| Max. Charge Current (PV + AC) (A)  | 120                                                                            |                |
| Battery                            |                                                                                |                |
| Rated Voltage (VDC)                | 48                                                                             |                |
| Floating Charge Voltage (VDC)      | 54                                                                             |                |
| Overcharge Protection (VDC)        | 61                                                                             |                |
| Battery Type                       | Lithium and Lead-acid                                                          |                |
| Interface                          |                                                                                |                |
| HMI                                | LCD/RGB                                                                        |                |
| Interface                          | RS485 / CAN / RS232 / CT(optional)                                             |                |
| Monitoring                         | WiFi (optional/built-in/external) , 4G(optional)                               |                |
| General Data                       |                                                                                |                |
| Ingress Protection                 | IP43                                                                           |                |
| Warranty                           | 2 years                                                                        |                |
| Operating Temperature              | -10 °C ~ 50 °C                                                                 |                |
| Relative Humidity                  | 5% ~ 95% (Non-condensing)                                                      |                |
| Storage Temperature                | -15 °C ~ 60 °C                                                                 |                |
| Net Weight (kg)                    | 8.3                                                                            |                |
| Dimensions (W*H*D)                 | 514*338*136.5mm                                                                |                |
| Max. Operating Altitude            | 4000m (Derating above 1000m)                                                   |                |

Product specifications are subject to change without further notice.



# APS12000-12000Pro

## Single Phase Off-grid Inverter

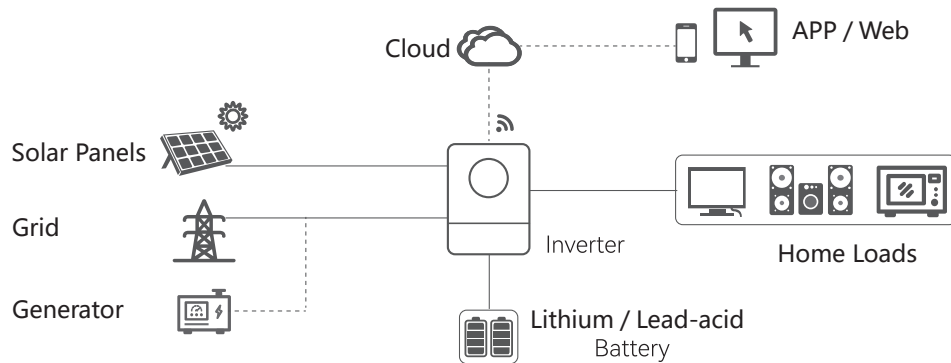
It is applicable to 220/230/240V voltage systems



- Built-in 160A Solar Charger.
- Wide PV Input Voltage Range 60-500V.
- Dual MPPTs Input.
- 45A MAX PV Input.
- Dual AC Output.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- 5 Inch Display.
- Feed-in to Grid.
- WiFi (optional/built-in/external), 4G(optional).



## System Diagram



## Technical Data

| MODEL                               | APS12000-48                                                          |     | APS12000 Pro-48 |
|-------------------------------------|----------------------------------------------------------------------|-----|-----------------|
| AC Input                            |                                                                      |     |                 |
| Rated Input Voltage (VAC)           | 220 / 230 / 240; L + N + PE                                          |     |                 |
| Voltage Range (VAC)                 | 90~280±3 (normal mode); 170~280±3 (UPS mode)                         |     |                 |
| Frequency (Hz)                      | 50 / 60 (Auto Adaptive)                                              |     |                 |
| AC Output                           |                                                                      |     |                 |
| Rated Capacity (kW)                 | 12                                                                   |     |                 |
| Surge Power (kVA)                   | 24                                                                   |     |                 |
| Voltage (VAC)                       | 220 / 230 / 240                                                      |     |                 |
| Power Factor (PF)                   | 1                                                                    |     |                 |
| Frequency                           | 50/60Hz±0.1%                                                         |     |                 |
| Switch Time (ms)                    | 10 (APP/UPS mode) / 20 (GEN mode)                                    |     |                 |
| Wave Form                           | Pure Sine Wave                                                       |     |                 |
| Overload Capacity (Battery Mode)    | 1min@102%~125%Load<br>10s@ >125%Load                                 |     |                 |
| Max. Efficiency (Battery Mode)      | 94%@48VDC                                                            |     |                 |
| Parallel Quantity                   | NA                                                                   | Yes |                 |
| Charger (PV / AC)                   |                                                                      |     |                 |
| Solar Charger Type                  | Dual MPPTs                                                           |     |                 |
| Max. PV input Current / Input Power | Using One MPPT: 27A/9KW<br>Using Two MPPTs: 27A/Per MPPT, 15kW/Total |     |                 |
| MPPT Range@Operating Voltage (VDC)  | 60~450                                                               |     |                 |
| Max PV Open Circuit Voltage (VDC)   | 500                                                                  |     |                 |
| Max PV Charge Current (A)           | 160                                                                  |     |                 |
| Max AC Charge Current (A)           | 160                                                                  |     |                 |
| Max. Charge Current (PV + AC) (A)   | 160                                                                  |     |                 |
| Battery                             |                                                                      |     |                 |
| Rated Voltage (VDC)                 | 48                                                                   |     |                 |
| Overcharge Protection (VDC)         | 60                                                                   |     |                 |
| Battery Type                        | Lithium and Lead-acid                                                |     |                 |
| Interface                           |                                                                      |     |                 |
| HMI                                 | LCD/RGB                                                              |     |                 |
| Interface                           | RS485 / CAN / RS232 / CT(optional)                                   |     |                 |
| Monitoring                          | WiFi (optional/built-in/external), 4G(optional)                      |     |                 |
| General Data                        |                                                                      |     |                 |
| Ingress Protection                  | IP43                                                                 |     |                 |
| Warranty                            | 2 years                                                              |     |                 |
| Operating Temperature               | -10 °C ~ 60 °C                                                       |     |                 |
| Relative Humidity                   | 5% ~ 95% (Non-condensing)                                            |     |                 |
| Storage Temperature                 | -15 °C ~ 60 °C                                                       |     |                 |
| Net Weight (kg)                     | 14.2                                                                 |     |                 |
| Dimensions (W*H*D)                  | 480*410*120mm                                                        |     |                 |
| Max. Operating Altitude             | 4000m (Derating above 1000m)                                         |     |                 |

Product specifications are subject to change without further notice.



# WPS3600-5000

## Single Phase Off-grid Inverter

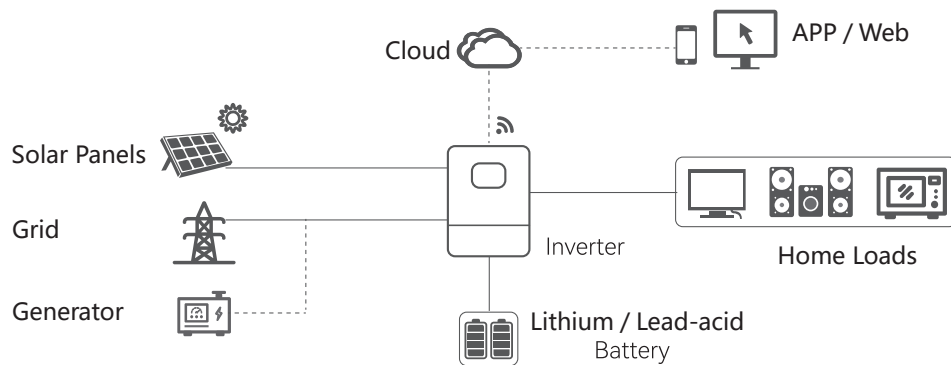
It is applicable to 208/220/230/240V voltage systems



- Built-in 160A Solar Charger.
- Wide PV Input Voltage Range 40~450V.
- 27A MAX PV Input.
- Dual AC Output.
- Support Meter/CT Connection.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Support Generator ATS Control.
- Feed-in to Grid.
- WiFi (optional/built-in/external), 4G(optional).



## System Diagram



## Technical Data

| MODEL                              | WPS3600-24                                                                 | WPS5000-24                        |
|------------------------------------|----------------------------------------------------------------------------|-----------------------------------|
| AC Input                           |                                                                            |                                   |
| Rated Input Voltage (VAC)          | 208 / 220 / 230 / 240; L + N + PE                                          |                                   |
| Voltage Range (VAC)                | 90~280±3 (normal mode); 170~280±3 (UPS mode)                               |                                   |
| Frequency (Hz)                     | 50 / 60 (Auto Adaptive)                                                    |                                   |
| AC Output                          |                                                                            |                                   |
| Rated Capacity (kW)                | 3.6                                                                        | 5                                 |
| Surge Power (kVA)                  | 7.2                                                                        | 10                                |
| Voltage (VAC)                      | 208 / 220 / 230 / 240                                                      |                                   |
| Power Factor (PF)                  | 1                                                                          |                                   |
| Frequency                          | 50/60Hz±0.1%                                                               |                                   |
| Switch Time (ms)                   | 10 (APP/UPS mode) / 20 (GEN mode)                                          | 10 (normal mode) / 10 (UPS mode)  |
| Wave Form                          | Pure Sine Wave                                                             |                                   |
| Overload Capacity (Battery Mode)   | 60s@102%-110% load; 10s@110%-130% load; 3s@130%-150% load; 0.2s@>150% load | 1min@102%-120%load, 10s>120% load |
| Max. Efficiency (Battery Mode)     | 92.7%@24VDC                                                                | 93.5%@24VDC                       |
| Parallel Operation Support         | NA                                                                         |                                   |
| Charger (PV / AC)                  |                                                                            |                                   |
| Solar Charger Type                 | MPPT                                                                       |                                   |
| Max PV input current / power       | 18A / 5000W                                                                | 27A / 9000W                       |
| MPPT Range@Operating Voltage (VDC) | 40~450                                                                     | 60~450                            |
| Max PV Open Circuit Voltage (VDC)  | 500                                                                        | 500                               |
| Max PV Charge Current (A)          | 100                                                                        | 160                               |
| Max AC Charge Current (A)          | 100                                                                        | 160                               |
| Max. Charge Current (PV + AC) (A)  | 100                                                                        | 160                               |
| Battery                            |                                                                            |                                   |
| Rated Voltage (VDC)                | 24                                                                         | 24                                |
| Floating Charge Voltage (VDC)      | 27                                                                         | 27                                |
| Overcharge Protection (VDC)        | 30.5                                                                       | 30.5                              |
| Battery Type                       | Lithium and Lead-acid                                                      |                                   |
| Interface                          |                                                                            |                                   |
| HMI                                | LCD/RGB                                                                    |                                   |
| Interface                          | RS485 / CAN / RS232                                                        | RS485 / CAN / RS232               |
| Monitoring                         | WiFi (optional/built-in/external) , 4G(optional)                           |                                   |
| General Data                       |                                                                            |                                   |
| Ingress Protection                 | IP54                                                                       |                                   |
| Warranty                           | 2 years                                                                    |                                   |
| Operating Temperature              | -10 °C ~ 60 °C                                                             |                                   |
| Relative Humidity                  | 5% ~ 95% (Non-condensing)                                                  |                                   |
| Storage Temperature                | -15 °C ~ 60 °C                                                             |                                   |
| Net Weight (kg)                    | 6.2                                                                        | 8.4                               |
| Dimensions (W*H*D)                 | 420*284*94mm                                                               | 410*336*110mm                     |
| Max. Operating Altitude            | 4000m (Derating above 1000m)                                               |                                   |

Product specifications are subject to change without further notice.



# WPS6500-6500Pro

## Single Phase Off-grid Inverter

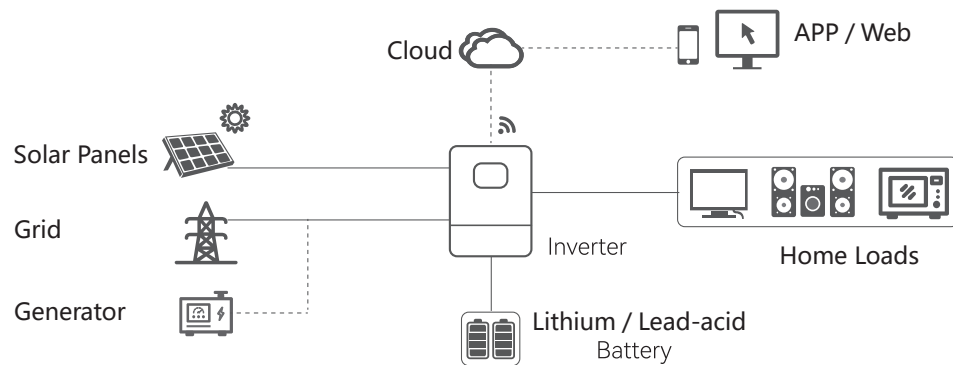
It is applicable to 208/220/230/240V voltage systems



- Built-in 120A Solar Charger.
- Wide PV Input Voltage Range 60~450V.
- 28A MAX PV Input.
- Dual AC Output.
- Support Meter/CT Connection.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- Support Generator ATS Control.
- Feed-in to Grid.
- WiFi (optional/built-in/external), 4G(optional).



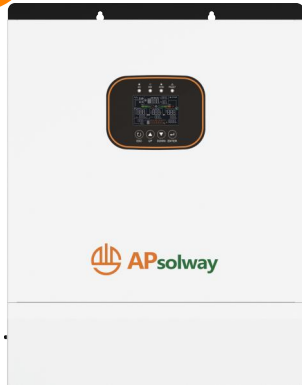
## System Diagram



## Technical Data

| MODEL                              | WPS6500-48                                                                     | WPS6500 Pro-48 |
|------------------------------------|--------------------------------------------------------------------------------|----------------|
| AC Input                           |                                                                                |                |
| Rated Input Voltage (VAC)          | 208 / 220 / 230 / 240; L + N + PE                                              |                |
| Voltage Range (VAC)                | 90~280±3 (normal mode); 170~280±3 (UPS mode)                                   |                |
| Frequency (Hz)                     | 50 / 60 (Auto Adaptive)                                                        |                |
| AC Output                          |                                                                                |                |
| Rated Capacity (kW)                | 6.5                                                                            |                |
| Surge Power (kVA)                  | 13                                                                             |                |
| Voltage (VAC)                      | 208 / 220 / 230 / 240                                                          |                |
| Power Factor (PF)                  | 1                                                                              |                |
| Frequency                          | 50/60Hz±0.1%                                                                   |                |
| Switch Time (ms)                   | 10 (normal mode) / 10 (UPS mode)                                               |                |
| Wave Form                          | Pure Sine Wave                                                                 |                |
| Overload Capacity (Battery Mode)   | 10min@102%~120% Load, 1min@120%~150% Load<br>10S@150%~200% Load, 5s@>200% Load |                |
| Max. Efficiency (Battery Mode)     | 93%@48VDC                                                                      |                |
| Parallel Operation Support         | NA                                                                             | Yes            |
| Charger (PV / AC)                  |                                                                                |                |
| Solar Charger Type                 | MPPT                                                                           |                |
| Max PV input current / power       | 28A / 9000W                                                                    |                |
| MPPT Range@Operating Voltage (VDC) | 60~450                                                                         |                |
| Max PV Open Circuit Voltage (VDC)  | 520                                                                            |                |
| Max PV Charge Current (A)          | 120                                                                            |                |
| Max AC Charge Current (A)          | 120                                                                            |                |
| Max. Charge Current (PV + AC) (A)  | 120                                                                            |                |
| Battery                            |                                                                                |                |
| Rated Voltage (VDC)                | 48                                                                             |                |
| Floating Charge Voltage (VDC)      | 54                                                                             |                |
| Overcharge Protection (VDC)        | 61                                                                             |                |
| Battery Type                       | Lithium and Lead-acid                                                          |                |
| Interface                          |                                                                                |                |
| HMI                                | LCD/RGB                                                                        |                |
| Interface                          | RS485 / CAN / RS232 / CT(optional)                                             |                |
| Monitoring                         | WiFi (optional/built-in/external) , 4G(optional)                               |                |
| General Data                       |                                                                                |                |
| Ingress Protection                 | IP54                                                                           |                |
| Warranty                           | 2 years                                                                        |                |
| Operating Temperature              | -10 °C - 50 °C                                                                 |                |
| Relative Humidity                  | 5% ~ 95% (Non-condensing)                                                      |                |
| Storage Temperature                | -15 °C - 60 °C                                                                 |                |
| Net Weight (kg)                    | 10.7                                                                           |                |
| Dimensions (W*H*D)                 | 514*338*136.5mm                                                                |                |
| Max. Operating Altitude            | 4000m (Derating above 1000m)                                                   |                |

Product specifications are subject to change without further notice.



# WPS12000-12000Pro

## Single Phase Off-grid Inverter

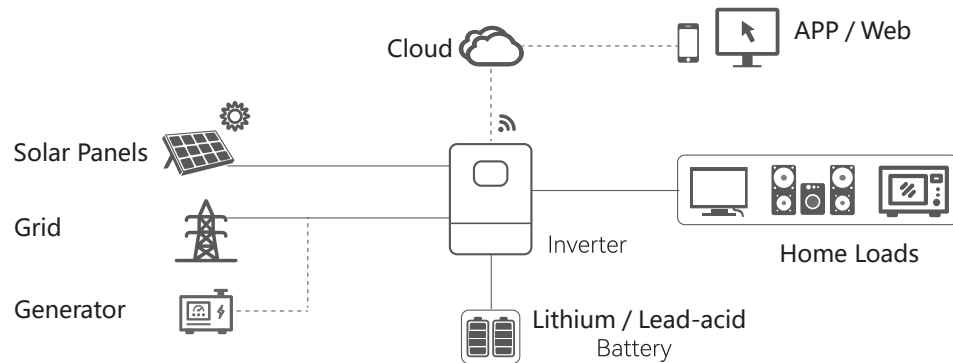
It is applicable to 220/230/240V voltage systems



- Built-in 160A Solar Charger.
- Wide PV Input Voltage Range 60-500V.
- Dual MPPTs Input.
- 45A MAX PV Input.
- Dual AC Output.
- Support Lithium/Lead-acid Battery.
- Lithium Battery Activation.
- 5 Inch Display.
- Feed-in to Grid.
- WiFi (optional/built-in/external), 4G(optional).



## System Diagram



## Technical Data

| MODEL                               | WPS12000-48                                                          |     | WPS12000 Pro-48 |
|-------------------------------------|----------------------------------------------------------------------|-----|-----------------|
| AC Input                            |                                                                      |     |                 |
| Rated Input Voltage (VAC)           | 220 / 230 / 240; L + N + PE                                          |     |                 |
| Voltage Range (VAC)                 | 90~280±3 (normal mode); 170~280±3 (UPS mode)                         |     |                 |
| Frequency (Hz)                      | 50 / 60 (Auto Adaptive)                                              |     |                 |
| AC Output                           |                                                                      |     |                 |
| Rated Capacity (kW)                 | 12                                                                   |     |                 |
| Surge Power (kVA)                   | 24                                                                   |     |                 |
| Voltage (VAC)                       | 220 / 230 / 240                                                      |     |                 |
| Power Factor (PF)                   | 1                                                                    |     |                 |
| Frequency                           | 50/60Hz±0.1%                                                         |     |                 |
| Switch Time (ms)                    | 10 (APP/UPS mode) / 20 (GEN mode)                                    |     |                 |
| Wave Form                           | Pure Sine Wave                                                       |     |                 |
| Overload Capacity (Battery Mode)    | 1min@102%~125%Load<br>10s@ >125%Load                                 |     |                 |
| Max. Efficiency (Battery Mode)      | 94%@48VDC                                                            |     |                 |
| Parallel Quantity                   | NA                                                                   | Yes |                 |
| Charger (PV / AC)                   |                                                                      |     |                 |
| Solar Charger Type                  | Dual MPPTs                                                           |     |                 |
| Max. PV input Current / Input Power | Using One MPPT: 27A/9KW<br>Using Two MPPTs: 27A/Per MPPT, 15kW/Total |     |                 |
| MPPT Range@Operating Voltage (VDC)  | 60~450                                                               |     |                 |
| Max PV Open Circuit Voltage (VDC)   | 500                                                                  |     |                 |
| Max PV Charge Current (A)           | 160                                                                  |     |                 |
| Max AC Charge Current (A)           | 160                                                                  |     |                 |
| Max. Charge Current (PV + AC) (A)   | 160                                                                  |     |                 |
| Battery                             |                                                                      |     |                 |
| Rated Voltage (VDC)                 | 48                                                                   |     |                 |
| Overcharge Protection (VDC)         | 60                                                                   |     |                 |
| Battery Type                        | Lithium and Lead-acid                                                |     |                 |
| Interface                           |                                                                      |     |                 |
| HMI                                 | LCD/RGB                                                              |     |                 |
| Interface                           | RS485 / CAN / RS232 / CT(optional)                                   |     |                 |
| Monitoring                          | WiFi (optional/built-in/external), 4G(optional)                      |     |                 |
| General Data                        |                                                                      |     |                 |
| Ingress Protection                  | IP54                                                                 |     |                 |
| Warranty                            | 2 years                                                              |     |                 |
| Operating Temperature               | -10 °C ~ 60 °C                                                       |     |                 |
| Relative Humidity                   | 5% ~ 95% (Non-condensing)                                            |     |                 |
| Storage Temperature                 | -15 °C ~ 60 °C                                                       |     |                 |
| Net Weight (kg)                     | 14.5                                                                 |     |                 |
| Dimensions (W*H*D)                  | 480*410*120mm                                                        |     |                 |
| Max. Operating Altitude             | 4000m (Derating above 1000m)                                         |     |                 |

Product specifications are subject to change without further notice.

5 YEARS  
WARRANTY

IP54



## AHS6300-12000

### Solar Battery Hybrid Controller

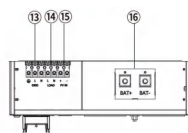
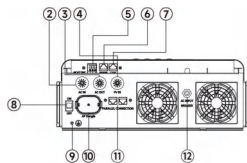
It is applicable to 220/230/240V voltage systems



- Low battery voltage input.
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc.
- IP54 intelligent air-cooled design enhances system reliability and service life.
- Multiple working modes: The priorities of PV power, utility power, and battery using the LCD screen.
- DSP control, dual-loop technology, and pure sine-wave output.
- Supports real-time monitoring via APP for intelligent and efficient energy management.

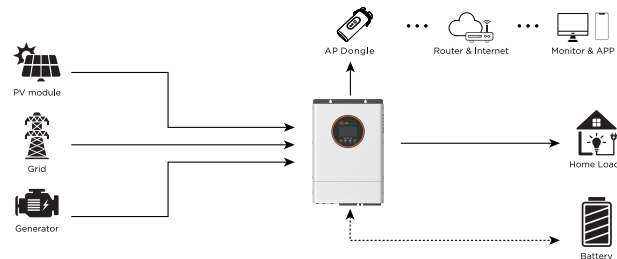


### Bottom view



- LCD display
- AC input
- AC output
- PV input
- Dry contact
- RS485
- CAN
- Power on/off switch
- Ground
- AP Dongle
- Parallel communication ports
- AC Input Breaker
- Grid L/N/PE
- Load L/N
- PV input +/-
- BAT+/BAT-

### System Diagram



| MODEL                                 | AHS-6.3                                                                                                                                                                                                                                                                       |        |         | AHS-10.2                                                                                                                                                                                                                                                             |  | AHS-12                |  |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|
| Dimensions W/H/D                      | 380mm × 576mm × 141mm                                                                                                                                                                                                                                                         |        |         | 480mm × 410mm × 120mm                                                                                                                                                                                                                                                |  | 480mm × 410mm × 120mm |  |
| Weight                                | 12.8kg                                                                                                                                                                                                                                                                        |        |         | 14.5kg                                                                                                                                                                                                                                                               |  | 14.5kg                |  |
| Ingress Protection                    | IP54                                                                                                                                                                                                                                                                          |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Warranty                              | 5 years                                                                                                                                                                                                                                                                       |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Operating Ambient Temperature Range   | -10°C to 55°C                                                                                                                                                                                                                                                                 |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Storage Temperature Range             | -15°C to 60°C                                                                                                                                                                                                                                                                 |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Relative Humidity                     | 5% to 95%                                                                                                                                                                                                                                                                     |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Cooling                               | Air-cooled by smart fans                                                                                                                                                                                                                                                      |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Communication Interface               | RS485/CAN                                                                                                                                                                                                                                                                     |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Safety and EMC Compliance             | EN/IEC62109-1/-2; EN/IEC-6-1/-2/-3/-4; EN/IEC62920                                                                                                                                                                                                                            |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Max. Number of Parallel Units         | 6                                                                                                                                                                                                                                                                             |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Battery Data                          |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Battery Voltage Type                  | 12V                                                                                                                                                                                                                                                                           | 24V    | 48V     | 48V                                                                                                                                                                                                                                                                  |  |                       |  |
| Float Charging Voltage                | 13.5V                                                                                                                                                                                                                                                                         | 27V    | 54V     | 54V                                                                                                                                                                                                                                                                  |  |                       |  |
| Overcharging Protection Voltage       | 15V                                                                                                                                                                                                                                                                           | 30V    | 60V     | 60V                                                                                                                                                                                                                                                                  |  |                       |  |
| Battery Type                          | Lead-acid batteries / lithium batteries                                                                                                                                                                                                                                       |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Charging Mode                         | Three-stage charging (lead-acid batteries);<br>Default charge curve or BMS communication (lithium batteries)                                                                                                                                                                  |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Max. DC Discharge Current             | 135A                                                                                                                                                                                                                                                                          | 135A   | 135A    | 210A                                                                                                                                                                                                                                                                 |  | 250A                  |  |
| Max. Charge Current (from PV)         | 85A                                                                                                                                                                                                                                                                           | 105A   | 135A    | 210A                                                                                                                                                                                                                                                                 |  | 250A                  |  |
| Max. Charge Current (from Grid)       | 85A                                                                                                                                                                                                                                                                           | 105A   | 135A    | 210A                                                                                                                                                                                                                                                                 |  | 250A                  |  |
| Max. Charge Current                   | 85A                                                                                                                                                                                                                                                                           | 105A   | 135A    | 210A                                                                                                                                                                                                                                                                 |  | 250A                  |  |
| Ac Output Data                        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Max. Output Apparent Power            | 1000VA                                                                                                                                                                                                                                                                        | 2500VA | 6300VA  | 10200VA                                                                                                                                                                                                                                                              |  | 12000VA               |  |
| Peak Output Apparent Power            | 2000VA                                                                                                                                                                                                                                                                        | 5000VA | 12600VA | 20400VA                                                                                                                                                                                                                                                              |  | 24000VA               |  |
| Output Waveform                       | Pure sine wave                                                                                                                                                                                                                                                                |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Nominal Output Voltage                | 220VAC/230VAC/240VAC                                                                                                                                                                                                                                                          |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Nominal Output Frequency              | 50Hz/60Hz                                                                                                                                                                                                                                                                     |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Peak Efficiency (PV to Inverter)      | 97.7%                                                                                                                                                                                                                                                                         |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Peak Efficiency (Battery to Inverter) | 96.1%                                                                                                                                                                                                                                                                         |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Switching Time                        | 5ms(UPS) 20ms(APL)                                                                                                                                                                                                                                                            |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Overload Protection                   | (102% < load < 125%) ± 10%:<br>Reports an error and turns off the output 5 minutes later.<br>(125% < load < 150%) ± 10%:<br>Reports an error and turns off the output 10 seconds later.<br>(Load > 150%) ± 10%:<br>Reports an error and turns off the output 5 seconds later. |        |         | (102% < load < 110%) ± 10%: Reports an error and turns off the output 5 minutes later.<br>(110% < load < 125%) ± 10%: Reports an error and turns off the output 10 seconds later.<br>(Load > 125%) ± 10%: Reports an error and turns off the output 5 seconds later. |  |                       |  |
| Ac Input Data                         |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Nominal Voltage                       | 220VAC/230VAC/240VAC                                                                                                                                                                                                                                                          |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Operating Voltage Range               | 170 to 280VAC (UPS) 90 to 280VAC (APL)                                                                                                                                                                                                                                        |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Nominal Frequency                     | 50Hz/60Hz                                                                                                                                                                                                                                                                     |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Power Factor (Default/Adjustable)     | > 0.99 (adjustable from 0.8 leading to 0.8 lagging)                                                                                                                                                                                                                           |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Total Harmonic Distortion of Current  | < 3%                                                                                                                                                                                                                                                                          |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Grid Connection                       | Single phase                                                                                                                                                                                                                                                                  |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Max. Bypass Overload Current          | 40A                                                                                                                                                                                                                                                                           |        |         | 60A                                                                                                                                                                                                                                                                  |  | 80A                   |  |
| Pv Input Data                         |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                      |  |                       |  |
| Max. PV Input Power                   | 6500W                                                                                                                                                                                                                                                                         |        |         | 10000W                                                                                                                                                                                                                                                               |  | 15000W                |  |
| Number of MPPTs                       | 1                                                                                                                                                                                                                                                                             |        |         | 2                                                                                                                                                                                                                                                                    |  | 2                     |  |
| Max. Input Voltage                    | 500VDC                                                                                                                                                                                                                                                                        |        |         | 500VDC                                                                                                                                                                                                                                                               |  | 500VDC                |  |
| MPPT Voltage Range                    | 60 to 450VDC                                                                                                                                                                                                                                                                  |        |         | 60 to 450VDC                                                                                                                                                                                                                                                         |  | 60 to 450VDC          |  |
| Max. PV Input Current                 | 22A                                                                                                                                                                                                                                                                           |        |         | 22A+22A                                                                                                                                                                                                                                                              |  | 27A+27A               |  |
| MPPT Efficiency                       | 99.9%                                                                                                                                                                                                                                                                         |        |         | 99.9%                                                                                                                                                                                                                                                                |  | 99.9%                 |  |

Product specifications are subject to change without further notice.

5 YEARS  
WARRANTY

IP54

## AHS3600-12000-SP

### Split Phase Hybrid Inverter

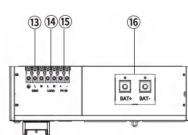
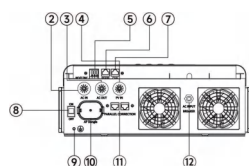
It is applicable to 110/115/120/220/230/240V voltage systems



- Low battery voltage input.
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc.
- IP54 intelligent air-cooled design enhances system reliability and service life.
- Multiple working modes: The priorities of PV power, utility power, and battery using the LCD screen.
- DSP control, dual-loop technology, and pure sine-wave output.
- Supports real-time monitoring via APP for intelligent and efficient energy management.

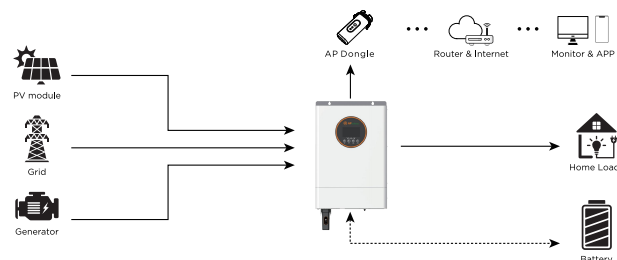


### Bottom view



- LCD display
- AC input
- AC output
- PV input
- Dry contact
- RS485
- CAN
- Power on/off switch
- Ground
- AP Dongle
- Parallel communication ports
- AC Input Breaker
- Grid L/N/PE
- Load L/N
- PV input +/-
- BAT+/BAT-

### System Diagram



| MODEL                                 | AHS-3.6-SP                                                                                                                                                                                                                                                                    |        |        | AHS-6.3-SP                                                                                                                                                                                                                                                                    |        |         | AHS-12-SP                                                                                                                                                                                                                                                                     |
|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dimensions W/H/D                      | 420mm × 284mm × 94mm                                                                                                                                                                                                                                                          |        |        | 380mm × 576mm × 141mm                                                                                                                                                                                                                                                         |        |         | 480mm × 410mm × 120mm                                                                                                                                                                                                                                                         |
| Weight                                | 6.2kg                                                                                                                                                                                                                                                                         |        |        | 12.8kg                                                                                                                                                                                                                                                                        |        |         | 14.5kg                                                                                                                                                                                                                                                                        |
| Ingress Protection                    | IP54                                                                                                                                                                                                                                                                          |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Warranty                              | 5 years                                                                                                                                                                                                                                                                       |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Operating Ambient Temperature Range   | -10°C to 55°C                                                                                                                                                                                                                                                                 |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Storage Temperature Range             | -15°C to 60°C                                                                                                                                                                                                                                                                 |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Relative Humidity                     | 5% to 95%                                                                                                                                                                                                                                                                     |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Cooling                               | Air-cooled by smart fans                                                                                                                                                                                                                                                      |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Communication Interface               | RS485/CAN                                                                                                                                                                                                                                                                     |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Safety and EMC Compliance             | EN/IEC62109-1/-2; EN/IEC-6-1/-2/-3/-4; EN/IEC62920                                                                                                                                                                                                                            |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Max. Number of Parallel Units         | 6                                                                                                                                                                                                                                                                             |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Battery Data                          |                                                                                                                                                                                                                                                                               |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Battery Voltage Type                  | 12V                                                                                                                                                                                                                                                                           | 24V    | 48V    | 12V                                                                                                                                                                                                                                                                           | 24V    | 48V     | 48V                                                                                                                                                                                                                                                                           |
| Float Charging Voltage                | 13.5V                                                                                                                                                                                                                                                                         | 27V    | 54V    | 13.5V                                                                                                                                                                                                                                                                         | 27V    | 54V     | 54V                                                                                                                                                                                                                                                                           |
| Overcharging Protection Voltage       | 15V                                                                                                                                                                                                                                                                           | 30V    | 60V    | 15V                                                                                                                                                                                                                                                                           | 30V    | 60V     | 60V                                                                                                                                                                                                                                                                           |
| Battery Type                          | Lead-acid batteries / lithium batteries                                                                                                                                                                                                                                       |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Charging Mode                         | Three-stage charging (lead-acid batteries);<br>Default charge curve or BMS communication (lithium batteries)                                                                                                                                                                  |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Max. DC Discharge Current             | 80A                                                                                                                                                                                                                                                                           |        |        | 135A                                                                                                                                                                                                                                                                          | 135A   | 135A    | 250A                                                                                                                                                                                                                                                                          |
| Max. Charge Current (from PV)         | 80A                                                                                                                                                                                                                                                                           |        |        | 85A                                                                                                                                                                                                                                                                           | 105A   | 135A    | 250A                                                                                                                                                                                                                                                                          |
| Max. Charge Current (from Grid)       | 80A                                                                                                                                                                                                                                                                           |        |        | 85A                                                                                                                                                                                                                                                                           | 105A   | 135A    | 250A                                                                                                                                                                                                                                                                          |
| Max. Charge Current                   | 80A                                                                                                                                                                                                                                                                           |        |        | 85A                                                                                                                                                                                                                                                                           | 105A   | 135A    | 250A                                                                                                                                                                                                                                                                          |
| Ac Output Data                        |                                                                                                                                                                                                                                                                               |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Max. Output Apparent Power            | 600VA                                                                                                                                                                                                                                                                         | 1400VA | 3600VA | 1000VA                                                                                                                                                                                                                                                                        | 2500VA | 6300VA  | 12000VA                                                                                                                                                                                                                                                                       |
| Peak Output Apparent Power            | 1200VA                                                                                                                                                                                                                                                                        | 2800VA | 7200VA | 2000VA                                                                                                                                                                                                                                                                        | 5000VA | 12600VA | 24000VA                                                                                                                                                                                                                                                                       |
| Output Waveform                       | Pure sine wave                                                                                                                                                                                                                                                                |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Nominal Output Voltage                | 110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC                                                                                                                                                                                                                                   |        |        | 110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC                                                                                                                                                                                                                                   |        |         | 110/220VAC , 120/240VAC                                                                                                                                                                                                                                                       |
| Nominal Output Frequency              | 50Hz/60Hz                                                                                                                                                                                                                                                                     |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Peak Efficiency (PV to Inverter)      | 97.7%                                                                                                                                                                                                                                                                         |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Peak Efficiency (Battery to Inverter) | 96.1%                                                                                                                                                                                                                                                                         |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Switching Time                        | 5ms(UPS) 20ms(APL)                                                                                                                                                                                                                                                            |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Overload Protection                   | (102% < load < 125%) ± 10%:<br>Reports an error and turns off the output 5 minutes later.<br>(125% < load < 150%) ± 10%:<br>Reports an error and turns off the output 10 seconds later.<br>(load > 150%) ± 10%:<br>Reports an error and turns off the output 5 seconds later. |        |        | (102% < load < 125%) ± 10%:<br>Reports an error and turns off the output 5 minutes later.<br>(125% < load < 150%) ± 10%:<br>Reports an error and turns off the output 10 seconds later.<br>(load > 150%) ± 10%:<br>Reports an error and turns off the output 5 seconds later. |        |         | (102% < load < 110%) ± 10%:<br>Reports an error and turns off the output 5 minutes later.<br>(110% < load < 125%) ± 10%:<br>Reports an error and turns off the output 10 seconds later.<br>(load > 125%) ± 10%:<br>Reports an error and turns off the output 5 seconds later. |
| Ac Input Data                         |                                                                                                                                                                                                                                                                               |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Nominal Voltage                       | 110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC                                                                                                                                                                                                                                   |        |        | 110VAC/220VAC, 115VAC/230VAC, 120VAC/240VAC                                                                                                                                                                                                                                   |        |         | 110/220VAC, 120/240VAC                                                                                                                                                                                                                                                        |
| Operating Voltage Range               | L-N: 90 to 140VAC (UPS) 85 to 140VAC (APL) L-L: 170 to 280VAC (UPS) 90 to 280VAC (APL)                                                                                                                                                                                        |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Nominal Frequency                     | 50Hz/60Hz                                                                                                                                                                                                                                                                     |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Power Factor (Default/Adjustable)     | > 0.99 (adjustable from 0.8 leading to 0.8 lagging)                                                                                                                                                                                                                           |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Total Harmonic Distortion of Current  | < 3%                                                                                                                                                                                                                                                                          |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Grid Connection                       | Split phase                                                                                                                                                                                                                                                                   |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Max. Bypass Overload Current          | 40A                                                                                                                                                                                                                                                                           |        |        | 40A                                                                                                                                                                                                                                                                           |        |         | 80A                                                                                                                                                                                                                                                                           |
| Pv Input Data                         |                                                                                                                                                                                                                                                                               |        |        |                                                                                                                                                                                                                                                                               |        |         |                                                                                                                                                                                                                                                                               |
| Max. PV Input Power                   | 6500W                                                                                                                                                                                                                                                                         |        |        | 6500W                                                                                                                                                                                                                                                                         |        |         | 15000W                                                                                                                                                                                                                                                                        |
| Number of MPPTs                       | 1                                                                                                                                                                                                                                                                             |        |        | 1                                                                                                                                                                                                                                                                             |        |         | 2                                                                                                                                                                                                                                                                             |
| Max. Input Voltage                    | 500VDC                                                                                                                                                                                                                                                                        |        |        | 500VDC                                                                                                                                                                                                                                                                        |        |         | 500VDC                                                                                                                                                                                                                                                                        |
| MPPT Voltage Range                    | 60 to 450VDC                                                                                                                                                                                                                                                                  |        |        | 60 to 450VDC                                                                                                                                                                                                                                                                  |        |         | 60 to 450VDC                                                                                                                                                                                                                                                                  |
| Max. PV Input Current                 | 22A                                                                                                                                                                                                                                                                           |        |        | 22A                                                                                                                                                                                                                                                                           |        |         | 27A+27A                                                                                                                                                                                                                                                                       |
| MPPT Efficiency                       | 99.9%                                                                                                                                                                                                                                                                         |        |        | 99.9%                                                                                                                                                                                                                                                                         |        |         | 99.9%                                                                                                                                                                                                                                                                         |

Product specifications are subject to change without further notice.

5 YEARS  
WARRANTY

IP54



# AHS5000-LV

## Solar Battery Hybrid Controller

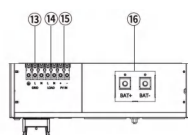
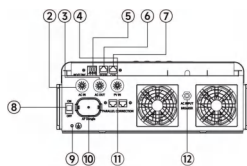
It is applicable to 110/115/120V voltage systems



- Low battery voltage input.
- Reliable protection against short-circuit, overvoltage, undervoltage, overload, etc.
- IP54 intelligent air-cooled design enhances system reliability and service life.
- Multiple working modes: The priorities of PV power, utility power, and battery using the LCD screen.
- DSP control, dual-loop technology, and pure sine-wave output.
- Supports real-time monitoring via APP for intelligent and efficient energy management.

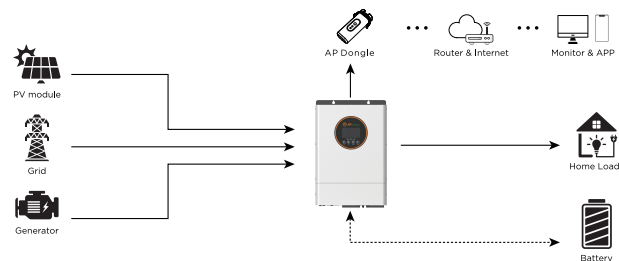


### Bottom view



- LCD display
- AC input
- AC output
- PV input
- Dry contact
- RS485
- CAN
- Power on/off switch
- Ground
- AP Dongle
- Parallel communication ports
- AC Input Breaker
- Grid L/N/PE
- Load L/N
- PV input +/-
- BAT+/BAT-

### System Diagram



## Technical Data

| MODEL                                 | AHS-5-LV                                                                                                                                                                                                                                                       |        |         |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|---------|
| Dimensions W/H/D                      | 362mm × 526mm × 141mm                                                                                                                                                                                                                                          |        |         |
| Weight                                | 11.8kg                                                                                                                                                                                                                                                         |        |         |
| Ingress Protection                    | IP54                                                                                                                                                                                                                                                           |        |         |
| Warranty                              | 5 years                                                                                                                                                                                                                                                        |        |         |
| Operating Ambient Temperature Range   | -10°C to 55°C                                                                                                                                                                                                                                                  |        |         |
| Storage Temperature Range             | -15°C to 60°C                                                                                                                                                                                                                                                  |        |         |
| Relative Humidity                     | 5% to 95%                                                                                                                                                                                                                                                      |        |         |
| Cooling                               | Air-cooled by smart fans                                                                                                                                                                                                                                       |        |         |
| Communication Interface               | RS485/CAN                                                                                                                                                                                                                                                      |        |         |
| Safety and EMC Compliance             | EN/IEC62109-1/-2; EN/IEC-6-1/-2/-3/-4; EN/IEC62920                                                                                                                                                                                                             |        |         |
| Max. Number of Parallel Units         | 6                                                                                                                                                                                                                                                              |        |         |
| Battery Data                          |                                                                                                                                                                                                                                                                |        |         |
| Battery Voltage Type                  | 12V                                                                                                                                                                                                                                                            | 24V    | 48V     |
| Float Charging Voltage                | 13.5V                                                                                                                                                                                                                                                          | 27V    | 54V     |
| Overcharging Protection Voltage       | 15V                                                                                                                                                                                                                                                            | 30V    | 60V     |
| Battery Type                          | Lead-acid batteries / lithium batteries                                                                                                                                                                                                                        |        |         |
| Charging Mode                         | Three-stage charging (lead-acid batteries);<br>Default charge curve or BMS communication (lithium batteries)                                                                                                                                                   |        |         |
| Max. DC Discharge Current             | 110A                                                                                                                                                                                                                                                           |        |         |
| Max. Charge Current (from PV)         | 85A                                                                                                                                                                                                                                                            | 100A   | 110A    |
| Max. Charge Current (from Grid)       | 85A                                                                                                                                                                                                                                                            | 100A   | 110A    |
| Max. Charge Current                   | 85A                                                                                                                                                                                                                                                            | 100A   | 110A    |
| AC Output Data                        |                                                                                                                                                                                                                                                                |        |         |
| Max. Output Apparent Power            | 1000VA                                                                                                                                                                                                                                                         | 2300VA | 5000VA  |
| Peak Output Apparent Power            | 2000VA                                                                                                                                                                                                                                                         | 4600VA | 10000VA |
| Output Waveform                       | Pure sine wave                                                                                                                                                                                                                                                 |        |         |
| Nominal Output Voltage                | 110VAC/115VAC/120VAC                                                                                                                                                                                                                                           |        |         |
| Nominal Output Frequency              | 50Hz/60Hz                                                                                                                                                                                                                                                      |        |         |
| Peak Efficiency (PV to Inverter)      | 96%                                                                                                                                                                                                                                                            |        |         |
| Peak Efficiency (Battery to Inverter) | 94.5%                                                                                                                                                                                                                                                          |        |         |
| Switching Time                        | 5ms                                                                                                                                                                                                                                                            |        |         |
| Overload Protection                   | (102% < load < 110%) ± 10%: close the output after reporting an error for 5 minutes;<br>(110% < load < 120%) ± 10%: close the output after reporting an error for 10 seconds;<br>(Load > 120%) ± 10%: close the output after reporting an error for 5 seconds. |        |         |
| AC Input Data                         |                                                                                                                                                                                                                                                                |        |         |
| Nominal Voltage                       | 110VAC/115VAC/120VAC                                                                                                                                                                                                                                           |        |         |
| Operating Voltage Range               | 90 to 140VAC                                                                                                                                                                                                                                                   |        |         |
| Nominal Frequency                     | 50Hz/60Hz                                                                                                                                                                                                                                                      |        |         |
| Power Factor (Default/Adjustable)     | > 0.99 (adjustable from 0.8 leading to 0.8 lagging)                                                                                                                                                                                                            |        |         |
| Total Harmonic Distortion of Current  | < 3%                                                                                                                                                                                                                                                           |        |         |
| Grid Connection                       | Single phase                                                                                                                                                                                                                                                   |        |         |
| Max. Bypass Overload Current          | 50A                                                                                                                                                                                                                                                            |        |         |
| PV Input Data                         |                                                                                                                                                                                                                                                                |        |         |
| Max. PV Input Power                   | 6000W                                                                                                                                                                                                                                                          |        |         |
| Number of MPPTs                       | 1                                                                                                                                                                                                                                                              |        |         |
| Max. Input Voltage                    | 350VDC                                                                                                                                                                                                                                                         |        |         |
| MPPT Voltage Range                    | 60 to 300VDC                                                                                                                                                                                                                                                   |        |         |
| Max. PV Input Current                 | 22A                                                                                                                                                                                                                                                            |        |         |
| MPPT Efficiency                       | 99.9%                                                                                                                                                                                                                                                          |        |         |

Product specifications are subject to change without further notice.



# SPH3600-6200-SP

## Split Phase Hybrid Inverter

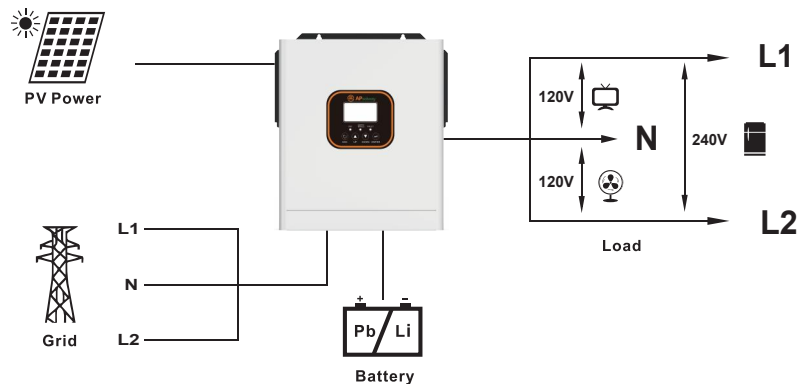
It is applicable to 120Vac single phase and 240Vac split phase voltage systems



- Built in dustproof components.
- 120Vac single phase and 240Vac split phase.
- Capable to operate without Battery.
- Wider PV input voltage range:90V~500Vdc.
- Excellent solar MPPT performance, efficiency up to 99%.
- PV generated energy Total and Daily information.
- Battery wake-up function.
- Capable to communicate with battery BMS by RS-485 interface.
- Excess solar energy can be powered to Grid (settable).



## System Diagram



## Technical Data

| MODEL                               | SPH3.6K-24/48-SP                 |  | SPH6.2K-48-SP |
|-------------------------------------|----------------------------------|--|---------------|
| PV Array                            |                                  |  |               |
| Max.PV Array Power                  | 4200W                            |  | 7200W         |
| MaxPV Array Open-Circuit Voltage    | 500VDC                           |  |               |
| Start-up Voltage                    | 90VDC                            |  |               |
| MPPT Operating Voltage Range        | 120~450VDC                       |  |               |
| Nominal Input Voltage               | 360VDC                           |  |               |
| Max. input Current MPPT             | 18A                              |  |               |
| MPPT max Efficiency                 | 99%                              |  |               |
| Battery                             |                                  |  |               |
| Battery Type                        | Li-ion/Lead-acid                 |  |               |
| Nominal Battery Voltage             | 24/48V                           |  | 48V           |
| Battery Voltage Range               | 21~29/41~58V                     |  | 41~58V        |
| Max. AC Charging Curent             | 80/40A                           |  | 65A           |
| Max. PV Charging Current            | 100A/60A                         |  | 100A          |
| Max, Continuous Discharging Current | 120/80A                          |  | 135A          |
| AC Input                            |                                  |  |               |
| Nominal Voltage                     | 240Vac (split phase)             |  |               |
| Voltage Range                       | 180~280Vac                       |  |               |
| Frequency                           | 50/60Hz (Auto following)         |  |               |
| Max. input Current                  | 40A                              |  |               |
| AC Output                           |                                  |  |               |
| Nominal Voltage                     | 115Vac±5%/230Vac±5%              |  |               |
| Output Voltage Waveform             | Pure Sine Wave                   |  |               |
| Rated Output Power                  | 3600VA/3600W                     |  | 6200VA/6200W  |
| Peak Output Power                   | 5300VA                           |  | 8800VA        |
| Nominal Output Frequency            | 50/60Hz                          |  |               |
| Transfer Time                       | 10ms                             |  |               |
| Efficiency(peak) PV to INV          | 96.5%                            |  |               |
| Efficiency(peak) BAT to INV         | 93.0%                            |  |               |
| Protection                          |                                  |  |               |
| Over Temperature Protection         | Yes                              |  |               |
| Overload Protection                 | 3s@≥150% load;10s@110%~150% load |  |               |
| General Data                        |                                  |  |               |
| Operating Temperature Range         | -10~+50℃                         |  |               |
| Relative Humidity                   | 0~95%                            |  |               |
| Max. Operating Altitude             | <4000m                           |  |               |
| Cooling Method                      | Intelligent Fan cooling          |  |               |
| Display                             | LED+LCD                          |  |               |
| Communication with BMS              | RS485                            |  |               |
| Communication with Cloud            | WIFI/4G                          |  |               |
| Degree of Protection                | IP43                             |  |               |
| Warranty                            | 2 years                          |  |               |
| Weight(kg)                          | 7/6.3                            |  | 10            |
| Dimension(W*H*Dmm)                  | 428*367*176                      |  | 509*384*176   |
| Mounting Method                     | Wall Mounted                     |  |               |

Product specifications are subject to change without further notice.



# SPH8500-12000-SP

## Split Phase Hybrid Inverter

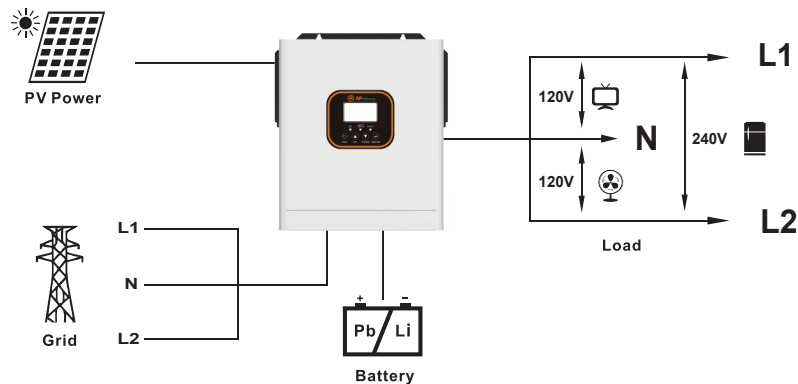
It is applicable to 120Vac single phase and 240Vac split phase voltage systems



- Built in dustproof components.
- 120Vac single phase and 240Vac split phase.
- Capable to operate without Battery.
- Wider PV input voltage range:100V~500Vdc.
- Excellent solar MPPT performance, efficiency up to 99%.
- PV generated energy Total and Daily information.
- Battery wake-up function.
- Capable to communicate with battery BMS by RS-485 interface.
- Excess solar energy can be powered to Grid (settable).



## System Diagram



## Technical Data

| MODEL                               | SPH8.5K-48-SP                        | SPH10.2K-48-SP | SPH12K-48-SP   |
|-------------------------------------|--------------------------------------|----------------|----------------|
| PV Array                            |                                      |                |                |
| Max.PV Array Power                  | 6600W+6600W                          |                | 9000W+9000W    |
| MaxPV Array Open-Circuit Voltage    | 500VDC                               |                |                |
| Start-up Voltage                    | 100VDC                               |                |                |
| MPPT Operating Voltage Range        | 85-450VDC                            |                |                |
| Nominal Input Voltage               | 360VDC                               |                |                |
| Max. input Current MPPT             | 18A*2                                |                | 25A*2          |
| MPPT max Efficiency                 | 99%                                  |                |                |
| Battery                             |                                      |                |                |
| Battery Type                        | Li-ion/Lead-acid                     |                |                |
| Nominal Battery Voltage             | 48V                                  |                |                |
| Battery Voltage Range               | 41-58V                               |                |                |
| Max. AC Charging Curent             | 80A                                  | 100A           |                |
| Max. PV Charging Current            | 140A                                 | 160A           |                |
| Max, Continuous Discharging Current | 180A                                 | 210A           | 250A           |
| AC Input                            |                                      |                |                |
| Nominal Voltage                     | 240Vac (split phase)                 |                |                |
| Voltage Range                       | 180-280VAC                           |                |                |
| Frequency                           | 50/60Hz (Auto following)             |                |                |
| Max. input Current                  | 40A                                  | 50A            | 60A            |
| AC Two Load Output                  |                                      |                |                |
| Nominal Voltage                     | 115Vac (L1/N, L2/N)/230Vac(L1/L2)±5% |                |                |
| Output Voltage Waveform             | Pure Sine Wave                       |                |                |
| Rated Output Power                  | 8500VA/8500W                         | 10200VA/10200W | 12000VA/12000W |
| Peak Output Power                   | 11000VA                              | 14000VA        | 15000VA        |
| Nominal Output Frequency            | 50/60Hz                              |                |                |
| Transfer Time                       | 10ms                                 |                |                |
| Efficiency(peak) PV to INV          | 96.5%                                |                |                |
| Efficiency(peak) BAT to INV         | 93.0%                                |                |                |
| Protection                          |                                      |                |                |
| Over Temperature Protection         | Yes                                  |                |                |
| Overload Protection                 | 3s@≥150% load;10s@110%~150% load     |                |                |
| General Data                        |                                      |                |                |
| Operating Temperature Range         | -10--+50℃                            |                |                |
| Relative Humidity                   | 0~95%                                |                |                |
| Max. Operating Altitude             | <4000m                               |                |                |
| Cooling Method                      | Intelligent Fan cooling              |                |                |
| Display                             | LED+LCD                              |                |                |
| Communication with BMS              | RS485                                |                |                |
| Communication with Cloud            | WIFI/4G                              |                |                |
| Degree of Protection                | IP43                                 |                |                |
| Warranty                            | 2 years                              |                |                |
| Weight(kg)                          | 12.5                                 | 14.5           | 14.5           |
| Dimension(W*H*Dmm)                  | 605*430*201                          |                |                |
| Mounting Method                     | Wall Mounted                         |                |                |

Product specifications are subject to change without further notice.



# SPH3000-5000-LV

## Single Phase Hybrid Inverter

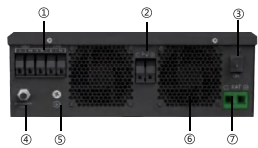
It is applicable to 120V±5% voltage systems



- Built in dustproof components.
- Capable to operate without Battery.
- Wider PV input voltage range:60V~300Vdc.
- Excellent solar MPPT performance, efficiency up to 99%.
- PV generated energy Total and Daily information.
- Battery wake-up function.
- Excess solar energy can be powered to Grid (settable).

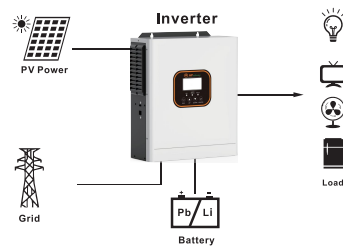


### Bottom view

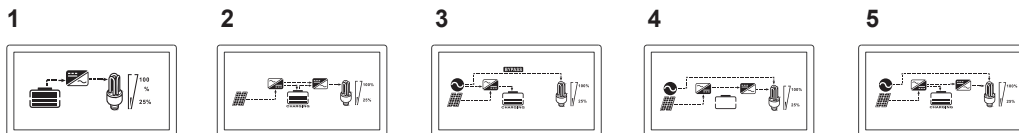


- 1.GAID&LOAD
- 2.PV Port
- 3.ON/OFF Rocker Switch
- 4.Overload Protector
- 5.GroundingScrewHole
- 6.Cooling Fan
- 7.Battery Port

### System Diagram



### Working Mode



## Technical Data

| MODEL                               | SPH3K-24/48-LV                         | SPH3.6K-24/48-LV | SPH5K-48-LV  |
|-------------------------------------|----------------------------------------|------------------|--------------|
| PV Array                            |                                        |                  |              |
| Max.PV Array Power                  | 3600W                                  | 4200W            | 6000W        |
| MaxPV Array Open-Circuit Voltage    | 300VDC                                 |                  |              |
| Start-up Voltage                    | 60VDC                                  |                  |              |
| MPPT Operating Voltage Range        | 70~280VDC                              |                  |              |
| MPPT Efficiency                     | 99%                                    |                  |              |
| Nominal Input Voltage               | 250VDC                                 |                  |              |
| Max. input Current MPPT             | 30A                                    |                  |              |
| Battery                             |                                        |                  |              |
| Battery Type                        | Li-ion/Lead-acid                       |                  |              |
| Nominal Battery Voltage             | 24/48V                                 |                  | 48V          |
| Battery Voltage Range               | 21-29 /41-58V                          |                  | 42-58V       |
| Max. AC Charging Current            | 40A                                    | 50A              | 50A          |
| Max. PV Charging Current            | 80A                                    | 100A             | 100A         |
| Max, Continuous Discharging Current | 100A                                   | 100A             | 120A         |
| AC Input                            |                                        |                  |              |
| Nominal Voltage                     | 120Vac                                 |                  |              |
| Voltage Range                       | 90~140Vac                              |                  |              |
| Frequency                           | 50/60Hz (Auto following)               |                  |              |
| High Loss Frequency                 | 65Hz                                   |                  |              |
| Low Loss Frequency                  | 45Hz                                   |                  |              |
| Max. input Current                  | 40A                                    |                  | 50A          |
| AC Output                           |                                        |                  |              |
| Nominal Voltage                     | 120Vac ± 5%                            |                  |              |
| Output Voltage Waveform             | Pure Sine Wave                         |                  |              |
| Rated Output Power                  | 3000VA/3000W                           | 3600VA/3600W     | 5000VA/5000W |
| Peak Output Power                   | 4500VA                                 | 5400VA           | 7500VA       |
| Nominal Output Frequency            | 50/60Hz                                |                  |              |
| Transfer Time                       | 10ms                                   |                  |              |
| Max. PV to AC Efficiency            | 96.5%                                  |                  |              |
| Max. Battery to AC Efficiency       | 91.0%                                  |                  |              |
| Protection                          |                                        |                  |              |
| Over Temperature Protection         | Yes                                    |                  |              |
| Overload Protection                 | 3s@≥150% load;10s@110%~150% load       |                  |              |
| General Data                        |                                        |                  |              |
| Operating Temperature Range         | -10-- +50℃                             |                  |              |
| Safety Certification                | CE                                     |                  |              |
| Relative Humidity                   | 0~95%Relative Humidity(Non-condensing) |                  |              |
| Max. Operating Altitude             | < 4000m                                |                  |              |
| Cooling Method                      | Intelligent Fan cooling                |                  |              |
| Display                             | LED+LCD                                |                  |              |
| Degree of Protection                | IP43                                   |                  |              |
| Warranty                            | 2 years                                |                  |              |
| Weight(kg)                          | 6.5                                    | 8.4              |              |
| Dimension(W*H*Dmm)                  | 326*275*95                             |                  | 363*105*300  |
| Mounting Method                     | Wall Mounted                           |                  |              |

Product specifications are subject to change without further notice.



# EZ1 Series

## Micro inverter

It is applicable to 230V/184V-253V voltage systems

### Smarter Plug-In Solar

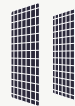


### Plug & Play



Compatible with high-power modules

DC system voltage  
≤ 60Voc



High Efficiency

96.7%



Maximum continuous output power



Built-in

Wi-Fi + Bluetooth  
for easy commissioning & monitoring



## Technical Data

| MODEL                                   | EZ1-M                                                                                                                                                                                                                                                                                                                                                       | EZ1-H                |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|
| Region                                  | EMEA                                                                                                                                                                                                                                                                                                                                                        |                      |
| Input Data (DC)                         |                                                                                                                                                                                                                                                                                                                                                             |                      |
| Recommended PV Module Power (STC) Range | 300Wp~730Wp+                                                                                                                                                                                                                                                                                                                                                | 410Wp~760Wp+         |
| Peak Power Tracking Voltage             | 28V~45V                                                                                                                                                                                                                                                                                                                                                     |                      |
| Operating Voltage Range                 | 26V~60V                                                                                                                                                                                                                                                                                                                                                     |                      |
| Maximum Input Voltage                   | 60V                                                                                                                                                                                                                                                                                                                                                         |                      |
| Maximum Input Current                   | 20A x 2                                                                                                                                                                                                                                                                                                                                                     |                      |
| Isc PV                                  | 25A x 2                                                                                                                                                                                                                                                                                                                                                     |                      |
| Output Data (AC)                        |                                                                                                                                                                                                                                                                                                                                                             |                      |
| Maximum Continuous Output Power         | 600VA(1)/799VA                                                                                                                                                                                                                                                                                                                                              | 960VA                |
| Nominal Output Voltage/Range            | 230V/184V~253V                                                                                                                                                                                                                                                                                                                                              |                      |
| Nominal Output Current                  | 2.6A(1)/3.5A                                                                                                                                                                                                                                                                                                                                                | 4.2A                 |
| Nominal Output Frequency/ Range         | 50Hz/48Hz~51Hz                                                                                                                                                                                                                                                                                                                                              |                      |
| Default Power Factor                    | 0.99                                                                                                                                                                                                                                                                                                                                                        |                      |
| Efficiency                              |                                                                                                                                                                                                                                                                                                                                                             |                      |
| Peak Efficiency                         | 96.7%                                                                                                                                                                                                                                                                                                                                                       |                      |
| Nominal MPPT Efficiency                 | 99.5%                                                                                                                                                                                                                                                                                                                                                       |                      |
| Night Power Consumption                 | 20mW                                                                                                                                                                                                                                                                                                                                                        |                      |
| Mechanical Data                         |                                                                                                                                                                                                                                                                                                                                                             |                      |
| Operating Ambient Temperature Range     | - 40 °C to + 65 °C                                                                                                                                                                                                                                                                                                                                          |                      |
| Storage Temperature Range               | - 40 °C to + 85 °C                                                                                                                                                                                                                                                                                                                                          |                      |
| Dimensions (W × H × D)                  | 263mm x 218mm x 36.5mm                                                                                                                                                                                                                                                                                                                                      | 263mm x 218mm x 37mm |
| Weight                                  | 2.8kg                                                                                                                                                                                                                                                                                                                                                       | 3kg                  |
| DC Connector Type                       | MC4 Compatible                                                                                                                                                                                                                                                                                                                                              |                      |
| Cooling                                 | Natural Convection - No Fans                                                                                                                                                                                                                                                                                                                                |                      |
| Enclosure Environmental Rating          | IP67                                                                                                                                                                                                                                                                                                                                                        |                      |
| Power Cord (Optional)                   |                                                                                                                                                                                                                                                                                                                                                             |                      |
| Wire Size                               | 2.5mm²                                                                                                                                                                                                                                                                                                                                                      |                      |
| Cable Length                            | 4M as default                                                                                                                                                                                                                                                                                                                                               |                      |
| Plug Type                               | Schuko(2)                                                                                                                                                                                                                                                                                                                                                   |                      |
| Features                                |                                                                                                                                                                                                                                                                                                                                                             |                      |
| Communication                           | Built-in Wi-Fi and Bluetooth                                                                                                                                                                                                                                                                                                                                |                      |
| Maximum Units Can Be Connected(3)       | 2                                                                                                                                                                                                                                                                                                                                                           |                      |
| Isolation Design                        | High Frequency Transformers, Galvanically Isolated                                                                                                                                                                                                                                                                                                          |                      |
| Energy Management(4)                    | AP EasyPower APP                                                                                                                                                                                                                                                                                                                                            |                      |
| Warranty(5)                             | 12 Years Standard                                                                                                                                                                                                                                                                                                                                           |                      |
| Compliances                             |                                                                                                                                                                                                                                                                                                                                                             |                      |
| Safety, EMC & Grid Compliances          | EN/IEC 62109-1; EN/IEC 62109-2; EN IEC 61000-6-1; EN IEC 61000-6-2; EN IEC 61000-6-3; EN IEC 61000-6-4; EN IEC 61000-3-2; EN 61000-3-3; EN 55011; EN 62920; EN 50549-1; EN 50549-10; NF EN 50549-1; NF EN 50549-10; PN-EN 50549-1; IRIESED; CEI 0-21; VDE-AR-N 4105; UTE C15-712-1; VFR 2019; UNE 217002; RD 647; RD 413; RD 1699; G98; G99; G98/NI; G99/NI |                      |

Product specifications are subject to change without further notice.

(1) The factory setting could be 600VA as default.

(2) If the microinverter is connected to grid by plug, please comply with the local regulation about the power limit.

(3) For some countries it is limited to 1 because of the regulations.

(4) The EasyPower App supports monitoring up to 4 units of product from the EZ1 series. If the microinverter is connected to grid by plug, please comply with the local regulation about the power limit. In Germany, the maximum power for plug-in PV systems is 800W, otherwise a professional electrician or installer is needed.

(5) Support and warranty is not available for rooftop installation systems.

(6) APsolway' Microinverter Systems fully meet the rapid shutdown requirement without the need to install additional electrical equipment.



# EZ1D Series

## Micro inverter

It is applicable to 230V/184V-253V voltage systems



Smarter Plug-In Solar

### UPGRADE

Independent MPPT  
with high input current capability

20A

Compatible with  
high-power modules  
DC system voltage  
≤ 120Voc

IP67  
for maximum reliability



Built-in  
**Wi-Fi + Bluetooth**  
for easy commissioning & monitoring



Maximum continuous  
output power

2000W

2.22kW DIY PV System

## Technical Data

| MODEL                                   | EZ1D-L                                                                                                                                                                            | EZ1D         | EZ1D-H       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------|
| Region                                  | EMEA                                                                                                                                                                              |              |              |
| Input Data (DC)                         |                                                                                                                                                                                   |              |              |
| Recommended PV Module Power (STC) Range | 300Wp~730Wp+                                                                                                                                                                      | 315Wp~660Wp+ | 315Wp~660Wp+ |
| Peak Power Tracking Voltage             | 56V~90V                                                                                                                                                                           |              |              |
| Operating Voltage Range                 | 52V~118V                                                                                                                                                                          |              |              |
| Maximum Input Voltage                   | 118V                                                                                                                                                                              |              |              |
| Maximum Input Current                   | 20A x 2                                                                                                                                                                           |              |              |
| Isc PV                                  | 25A x 2                                                                                                                                                                           |              |              |
| Output Data (AC)                        |                                                                                                                                                                                   |              |              |
| Maximum Continuous Output Power         | 1600VA                                                                                                                                                                            | 1800VA       | 2000VA       |
| Nominal Output Voltage/Range            | 230V/184V~253V                                                                                                                                                                    |              |              |
| Nominal Output Current                  | 7.0A                                                                                                                                                                              | 7.8A         | 8.7A         |
| Nominal Output Frequency/ Range         | 50Hz/47.5Hz~51.5Hz                                                                                                                                                                |              |              |
| Default Power Factor                    | 0.99/0.9 leading...0.9 lagging                                                                                                                                                    |              |              |
| Efficiency                              |                                                                                                                                                                                   |              |              |
| Peak Efficiency                         | 96.7%                                                                                                                                                                             |              |              |
| Nominal MPPT Efficiency                 | 99.5%                                                                                                                                                                             |              |              |
| Night Power Consumption                 | 20mW                                                                                                                                                                              |              |              |
| Mechanical Data                         |                                                                                                                                                                                   |              |              |
| Operating Ambient Temperature Range     | - 40 °C to + 65 °C                                                                                                                                                                |              |              |
| Storage Temperature Range               | - 40 °C to + 85 °C                                                                                                                                                                |              |              |
| Dimensions (W × H × D)                  | 283mm x 233mm x 39.5mm                                                                                                                                                            |              |              |
| Weight                                  | 4.2kg                                                                                                                                                                             |              |              |
| DC Connector Type                       | Stäubli MC4 PV-ADBP4-S2&ADSP4-S2                                                                                                                                                  |              |              |
| AC Extension Cable                      | Customer Self-provided(1)                                                                                                                                                         |              |              |
| Cooling                                 | Natural Convection - No Fans                                                                                                                                                      |              |              |
| Enclosure Environmental Rating          | IP67                                                                                                                                                                              |              |              |
| Features                                |                                                                                                                                                                                   |              |              |
| Communication                           | Built-in Wi-Fi and Bluetooth                                                                                                                                                      |              |              |
| Isolation Design                        | High Frequency Transformers, Galvanically Isolated                                                                                                                                |              |              |
| Energy Management(4)                    | AP EasyPower APP                                                                                                                                                                  |              |              |
| Warranty(5)                             | 12 Years Standard                                                                                                                                                                 |              |              |
| Compliances                             |                                                                                                                                                                                   |              |              |
| Safety, EMC & Grid Compliances          | EN/IEC 62109-1; EN/IEC 62109-2; EN 62920; EN 55011;<br>EN IEC 61000-6-3; EN IEC61000-6-4; EN IEC 61000-6-1;<br>EN IEC 61000-6-2; EN IEC 61000-3-2; EN 61000-3-3;<br>VDE-AR-N 4105 |              |              |

Product specifications are subject to change without further notice.

- (1) It is recommended that customers should use the 2.5 mm² AC extension cable or according to local regulations.
- (2) The EasyPower App only supports monitoring of 2 units of product from the EZ1D series.
- (3) Support and warranty is not available for rooftop installation systems.
- (4) APsolway' Microinverter Systems fully meet the rapid shutdown requirement without the need to install additional electrical equipment.

# VN Series

## Micro - Inverters

VN1T/VN2T/VN4T

**Micro-inverters**  
300W-2000W Freedom Of Choice



**IP67**

Waterproof and Dustproof

**MPPT**

MPPT Tracker

**15Years**

15 Years Lifetime Design

**APP**

APP Monitoring

**5m**

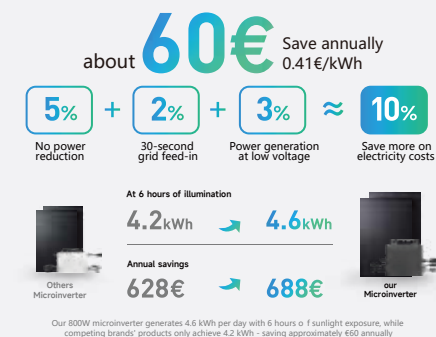
AC cable

**10Years**

10 Years Warranty

**800W**  
**Micro-inverter**

## Product Innovations

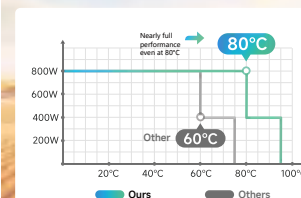


about **5%** Save on electricity bills

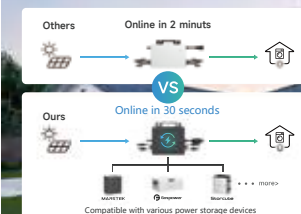
about **2%** Save on electricity bills

about **3%** Save on electricity bills

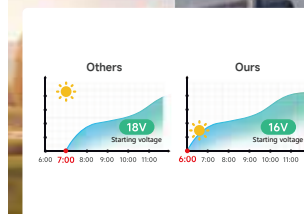
**No derating under high temperature**

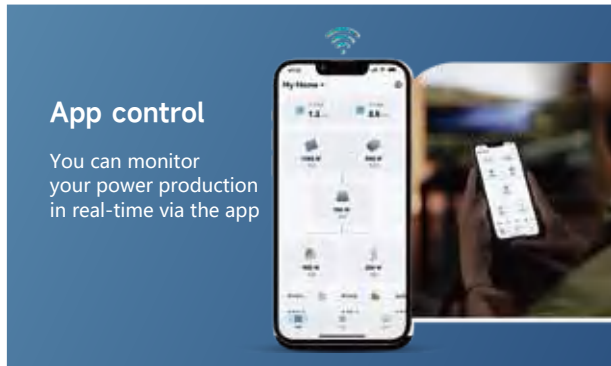


**Online in 30 seconds**



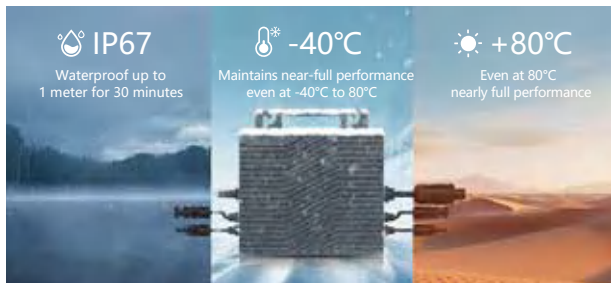
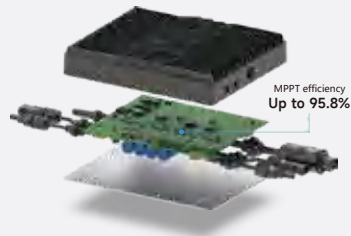
**Low-voltage startup**



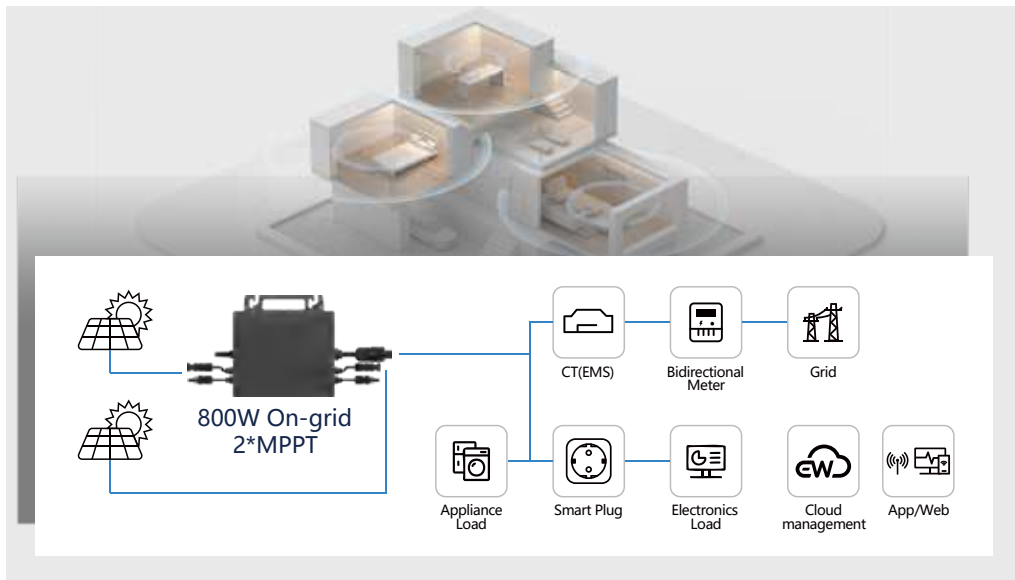


### Double MPPT

Optimizes solar power generation under varying conditions



## Micro-inverters system Diagram



### Microinverter Demo



| Model | VN1T<br>(300W/400W/500W) | VN2T<br>(600W/800W/1000W) | VN4T<br>(1200W/1600W/2000W) |
|-------|--------------------------|---------------------------|-----------------------------|
|-------|--------------------------|---------------------------|-----------------------------|

#### Inputs (DC)

|                                               |           |             |             |
|-----------------------------------------------|-----------|-------------|-------------|
| Recommended Module Power [W]                  | (300~550) | (300~550)*2 | (300~550)*4 |
| Start up Voltage per Input [V]                | 18        | 18          | 18          |
| Mppt Voltage Range per Input [V]              | 17.5~55   | 17.5~55     | 17.5~55     |
| Max. Input Voltage per Input [V]              | 60        | 60          | 60          |
| Max. Input Current per Input [A]              | 13.3      | 13.3        | 13.3        |
| Max. Input Short-circuit Current per Input[A] | 20        | 20          | 20          |

#### Outputs (AC)

|                                     |                                            |                      |                      |
|-------------------------------------|--------------------------------------------|----------------------|----------------------|
| Max. Continuous Output Power [VA]   | 300/400/500                                | 600/800/1000         | 1200/1600/2000       |
| Nominal Continuous Output Power [W] | 300/400/500                                | 600/800/1000         | 1200/1600/2000       |
| Max. Output Current [A]             | 1.30/1.74/2.17 (230)                       | 2.61/3.48/4.35 (230) | 5.22/6.96/8.70 (230) |
| Nominal Output Voltage [V]          | 220/230/240, L/N/PE                        | 220/230/240, L/N/PE  | 220/230/240, L/N/PE  |
| Nominal Frequency [Hz]              | 50/60                                      | 50/60                | 50/60                |
| Power Factor                        | >0.99 default, 0.9 leading ... 0.9 lagging |                      |                      |
| Maximum units per 10AWG branch²     | 24/18/14                                   | 12/9/7               | 6/4/3                |

#### Efficiency

|                                   |        |        |        |
|-----------------------------------|--------|--------|--------|
| Peak Inverter Efficiency          | 95.60% | 95.60% | 95.60% |
| Nominal Mppt Efficiency           | 99.90% | 99.90% | 99.90% |
| Night Time Power Consumption [mW] | <50    | <50    | <50    |

#### Mechanical Information

|                       |                |                |                |
|-----------------------|----------------|----------------|----------------|
| Dimensions (W×H×D mm) | 227 x 183 x 42 | 233 x 232 x 42 | 380 x 232 x 42 |
| Protection Grade      | IP67           | IP67           | IP67           |

#### Compliance

|                           |                                  |
|---------------------------|----------------------------------|
| Grid Connection Standards | VDE 4105; VDE 0124; EN50549      |
| Regulatory                | IEC/EN 62109-1/2                 |
| EMC                       | EN 61000-6-1/-3                  |
| Cybersecurity             | EN 18031-1:2024; EN 18031-2:2024 |



## EZOG Series

### Technical Data Single Phase Off-grid Inverter

It is applicable to 220/230/240V voltage systems

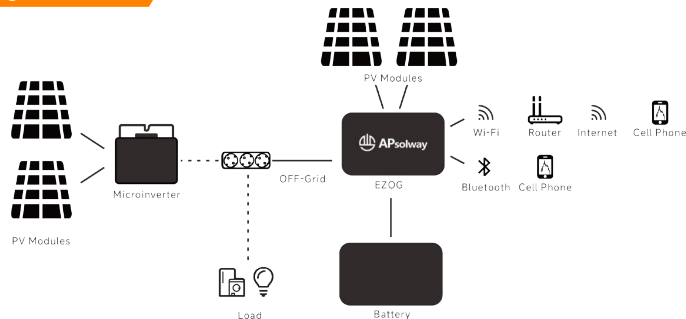


- GaN inside, supports 40A continuous fast charge.
- Fanless design for ultra-quiet operation.
- Support for expanding the capacity of multiple battery packs.
- Support for AC coupling in balcony microinverter system.
- More flexible installation of split batteries.
- 24-hour intelligent energy management system.
- Intelligent operation and maintenance platform with EMA.
- Quick and easy installation of an app.
- System-level IP67.
- 51.2V low battery voltage input.

### Interface Introduction



### Application Figure



## Technical Data

| MODEL                                      | EZOG                                                           |
|--------------------------------------------|----------------------------------------------------------------|
| <b>PV Input</b>                            |                                                                |
| Recommended PV Module Power (STC) Range(l) | 430Wp~900Wp+                                                   |
| Operating voltage range                    | 12V~60V                                                        |
| Maximum input voltage                      | 60V                                                            |
| MPPT voltage range                         | 12V~48V                                                        |
| Start-up voltage                           | 18V                                                            |
| Maximum continuous input current           | 17A*2                                                          |
| Isc PV                                     | 25A*2                                                          |
| <b>AC Input and Output (off-grid Port)</b> |                                                                |
| Grid type                                  | Single-phase                                                   |
| Nominal AC voltage (2)                     | 220V/230V/240V                                                 |
| Nominal AC frequency (2)                   | 50Hz/60Hz                                                      |
| Maximum continuous output power            | 1200VA                                                         |
| Peak output apparent power                 | 1800VA, 10s                                                    |
| Maximum continuous output current          | 5.45A                                                          |
| Maximum continuous input power             | 1200VA                                                         |
| Maximum continuous input current           | 5.45A                                                          |
| <b>Battery Ratings (Battery Port)</b>      |                                                                |
| Battery voltage range                      | 40~60VDC                                                       |
| Nominal battery voltage                    | 51.2V                                                          |
| Communication Ports                        | CAN                                                            |
| Maximum Continuous Discharge Power         | 1200VA                                                         |
| Peak Discharge Power                       | 1800VA, 10s                                                    |
| Maximum discharge current                  | 27A                                                            |
| Maximum charge current                     | 40A                                                            |
| <b>General Specifications</b>              |                                                                |
| Dimensions W/H/D                           | 351mm*269mm*47mm                                               |
| Weight                                     | 8KG                                                            |
| Maximum Efficiency                         | 95.5%                                                          |
| Operating Ambient Temperature Range        | -40 C ~55 C                                                    |
| Storage Temperature Range                  | -40 C ~85 C                                                    |
| Ingress Protection                         | IP67                                                           |
| Warranty                                   | 5 years                                                        |
| Relative Humidity                          | 10%~90%                                                        |
| Cooling                                    | Natural Convection-No Fans                                     |
| Maximum Altitude                           | <2000m                                                         |
| Pollution Degree Classification            | PD3                                                            |
| Protective class                           | I                                                              |
| Frequency Range                            | 2412MHz~2472MHz (WiFi), 2402MHz~2480MHz (Bluetooth)            |
| RF Output Power (EIRP)                     | 18.88 dBm (WiFi), 0.67dBm (Bluetooth)                          |
| <b>Features</b>                            |                                                                |
| Communication                              | Built-in Wi-Fi and Bluetooth                                   |
| Energy Management                          | AP EasyPower APP                                               |
| <b>Compliances</b>                         |                                                                |
| Safety, EMC Compliances                    | EN 62109-1/-2; EN 62477-1; EN IEC 61000-6-1/-2/-3/-4; EN 62920 |

Product specifications are subject to change without further notice.



## EZOG-LV Series

### Technical Data Single Phase Off-grid Inverter

It is applicable to 110V/120V/127V voltage systems

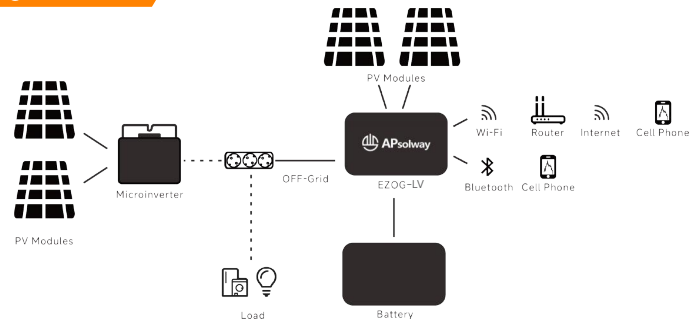


- GaN inside, supports 40A continuous fast charge.
- Fanless design for ultra-quiet operation.
- Support for expanding the capacity of multiple battery packs.
- Support for AC coupling in balcony microinverter system.
- More flexible installation of split batteries.
- 24-hour intelligent energy management system.
- Intelligent operation and maintenance platform with EMA.
- Quick and easy installation of an app.
- System-level IP67.
- 51.2V low battery voltage input.

### Interface Introduction



### Application Figure



## Technical Data

| MODEL                                      | EZOG-LV                                                        |
|--------------------------------------------|----------------------------------------------------------------|
| <b>PV Input</b>                            |                                                                |
| Recommended PV Module Power (STC) Range(l) | 430Wp~900Wp+                                                   |
| Operating voltage range                    | 12V~60V                                                        |
| Maximum input voltage                      | 60V                                                            |
| MPPT voltage range                         | 12V~48V                                                        |
| Start-up voltage                           | 18V                                                            |
| Maximum continuous input current           | 17A*2                                                          |
| Isc PV                                     | 25A*2                                                          |
| <b>AC Input and Output (off-grid Port)</b> |                                                                |
| Grid type                                  | Single-phase                                                   |
| Nominal AC voltage (2)                     | 110V/120V/127V                                                 |
| Nominal AC frequency (2)                   | 60Hz                                                           |
| Maximum continuous output power            | 1000VA                                                         |
| Peak output apparent power                 | 1500VA, 10s                                                    |
| Maximum continuous output current          | 9.09A                                                          |
| Maximum continuous input power             | 1000VA                                                         |
| Maximum continuous input current           | 9.09A                                                          |
| <b>Battery Ratings (Battery Port)</b>      |                                                                |
| Battery voltage range                      | 40~60VDC                                                       |
| Nominal battery voltage                    | 51.2V                                                          |
| Communication Ports                        | CAN                                                            |
| Maximum Continuous Discharge Power         | 1000VA                                                         |
| Peak Discharge Power                       | 1500VA, 10s                                                    |
| Maximum discharge current                  | 27A                                                            |
| Maximum charge current                     | 40A                                                            |
| <b>General Specifications</b>              |                                                                |
| Dimensions W/H/D                           | 351mm*269mm*47mm                                               |
| Weight                                     | 8KG                                                            |
| Maximum Efficiency                         | 96.2%                                                          |
| Operating Ambient Temperature Range        | -40 C ~55 C                                                    |
| Storage Temperature Range                  | -40 C ~85 C                                                    |
| Ingress Protection                         | IP67                                                           |
| Warranty                                   | 5 years                                                        |
| Relative Humidity                          | 10%~90%                                                        |
| Cooling                                    | Natural Convection-No Fans                                     |
| Maximum Altitude                           | <2000m                                                         |
| Pollution Degree Classification            | PD3                                                            |
| Protective class                           | I                                                              |
| <b>Features</b>                            |                                                                |
| Communication                              | Built-in Wi-Fi and Bluetooth                                   |
| Energy Management                          | AP EasyPower APP                                               |
| <b>Compliances</b>                         |                                                                |
| Safety, EMC Compliances                    | IEC 62109-1/-2; IEC 62477-1; IEC 61000-6-1/-2/-3/-4; IEC 62920 |

Product specifications are subject to change without further notice.



## EZHI Series

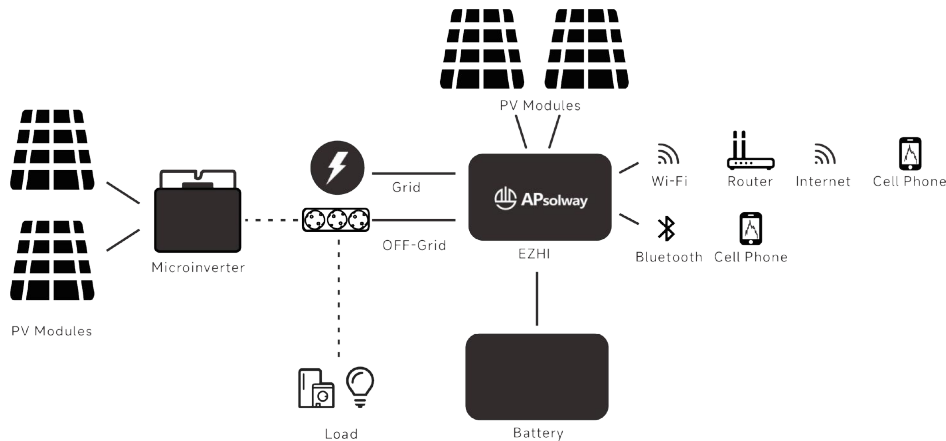
### Single-phase Hybrid Microinverter for Storage Wi-Fi Version for DIY

It is applicable to 230V voltage systems



- GaN inside, supports 40A continuous fast charge.
- Fanless design for ultra-quiet operation.
- UPS-level switching time 5ms.
- System-level IP67.
- 51.2V low battery voltage input.
- Intelligent charging technology, protecting battery life.
- High and low voltage isolation topologies, ensuring personal safety.
- Compatible with multiple battery brands.
- Support for expanding the capacity of multiple battery packs.
- Support for AC coupling in balcony microinverter system.
- More flexible installation of split batteries.

### Application Figure



## Technical Data

| MODEL                                      | E20G                                                                                                                                                                                                                                     |
|--------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Region                                     | EMEA                                                                                                                                                                                                                                     |
| <b>PV Input</b>                            |                                                                                                                                                                                                                                          |
| Recommended PV Module Power (STC) Range(1) | 430Wp~900Wp+                                                                                                                                                                                                                             |
| Operating voltage range                    | 12V~60V                                                                                                                                                                                                                                  |
| Maximum input voltage                      | 60V                                                                                                                                                                                                                                      |
| MPPT voltage range                         | 12V~48V                                                                                                                                                                                                                                  |
| Start-up voltage                           | 18V                                                                                                                                                                                                                                      |
| Maximum continuous input current           | 17A*2                                                                                                                                                                                                                                    |
| Isc PV                                     | 25A*2                                                                                                                                                                                                                                    |
| <b>AC Input and Output (on-grid Port)</b>  |                                                                                                                                                                                                                                          |
| Grid type                                  | Single-phase                                                                                                                                                                                                                             |
| Nominal AC voltage (2)                     | 230V                                                                                                                                                                                                                                     |
| Nominal AC frequency (2)                   | 50Hz                                                                                                                                                                                                                                     |
| Default output apparent power(3)           | 800VA                                                                                                                                                                                                                                    |
| Maximum continuous output power            | 1200VA                                                                                                                                                                                                                                   |
| Maximum continuous output current          | 5.22A                                                                                                                                                                                                                                    |
| Maximum continuous input power             | 1200VA                                                                                                                                                                                                                                   |
| Maximum continuous input current           | 5.22VA                                                                                                                                                                                                                                   |
| Power factor range                         | >0.99(+/- 0.8adj.)                                                                                                                                                                                                                       |
| EPS Switch Time                            | 5ms                                                                                                                                                                                                                                      |
| <b>AC Input and Output (off-grid Port)</b> |                                                                                                                                                                                                                                          |
| Grid type                                  | Single-phase                                                                                                                                                                                                                             |
| Nominal AC voltage                         | 230V                                                                                                                                                                                                                                     |
| Nominal AC frequency                       | 50Hz                                                                                                                                                                                                                                     |
| Maximum continuous output power            | 1200VA                                                                                                                                                                                                                                   |
| Peak output apparent power                 | 1800VA,10s                                                                                                                                                                                                                               |
| Maximum continuous output current          | 5.22A                                                                                                                                                                                                                                    |
| Maximum continuous input power             | 2400VA                                                                                                                                                                                                                                   |
| Maximum continuous input current           | 10.43A                                                                                                                                                                                                                                   |
| Max. Bypass current(Grid to Load)          | 12A                                                                                                                                                                                                                                      |
| <b>Battery Ratings (Battery Port)</b>      |                                                                                                                                                                                                                                          |
| Battery voltage range                      | 40~60VDC                                                                                                                                                                                                                                 |
| Nominal battery voltage                    | 51.2V                                                                                                                                                                                                                                    |
| Communication Ports                        | CAN                                                                                                                                                                                                                                      |
| Maximum Continuous Discharge Power         | 1200VA                                                                                                                                                                                                                                   |
| Peak Discharge Power                       | 1800VA,10s                                                                                                                                                                                                                               |
| Maximum discharge current                  | 27A                                                                                                                                                                                                                                      |
| Maximum charge current                     | 40A                                                                                                                                                                                                                                      |
| <b>General Specifications</b>              |                                                                                                                                                                                                                                          |
| Dimensions W/H/D                           | 351mm*269mm*47mm                                                                                                                                                                                                                         |
| Weight                                     | 8KG                                                                                                                                                                                                                                      |
| Maximum Efficiency                         | 96.2%                                                                                                                                                                                                                                    |
| Operating Ambient Temperature Range        | -40 C ~65 C                                                                                                                                                                                                                              |
| Storage Temperature Range                  | -40 C ~85 C                                                                                                                                                                                                                              |
| Ingress Protection                         | IP67                                                                                                                                                                                                                                     |
| Relative Humidity                          | 10%~90%                                                                                                                                                                                                                                  |
| Cooling                                    | Natural Convection-No Fans                                                                                                                                                                                                               |
| Maximum Altitude                           | <2000m                                                                                                                                                                                                                                   |
| Pollution Degree Classification            | PD3                                                                                                                                                                                                                                      |
| Overvoltage Category                       | OVC II For PV and Battery Input Circuit, OVC III For Mains Circuit                                                                                                                                                                       |
| Frequency Range                            | 2412MHz~2472MHz (WiFi), 2402MHz~2480MHz (Bluetooth)                                                                                                                                                                                      |
| RF Output Power (EIRP)                     | 18.88 dBm (WiFi), 0.67dBm (Bluetooth)                                                                                                                                                                                                    |
| <b>Features</b>                            |                                                                                                                                                                                                                                          |
| Communication                              | Built-in Wi-Fi and Bluetooth                                                                                                                                                                                                             |
| Energy Management                          | AP EasyPower APP                                                                                                                                                                                                                         |
| <b>Compliances</b>                         |                                                                                                                                                                                                                                          |
| Safety, EMC & Grid Compliances             | EN 62109-1/-2; EN 62477-1; EN IEC 61000-6-1/-2/-3/-4; EN 62920; VDE-AR-N 4105; EN 303 645; EN 50549-1; NF EN 50549-10; NF EN 50549-10; G98; G99; G98/Ni; G99/Ni; EN 18031-1; IEC61727; IEC 62116; IEC 61683; UNE 217002; UNE 217001; NTS |

Product specifications are subject to change without further notice.



# GE3000-6000

It is applicable to 220/230/240V voltage systems



## SINGLE PHASE & LV BATTERY



### Excellent Performance

- 200% usable PV power, up to 12 kW PV input
- Max.20A+20A PV input current with 2 MPPTs
- Max battery charge/discharge current of 140A
- Max. grid passthrough current of 41A



### Highly Flexible

- Support 40-60V Lithium or Lead-acid battery
- Support generator/smart load/AC coupling
- Max. 9 units parallel for on-grid and off-grid operation
- 3 inverters in parallel for three phase



### Safe & Reliable

- IP66: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Compact and lightweight, easy to transport and space-saving



### Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Built-in WiFi, supporting remote monitoring and upgrade

## Technical Data

| MODEL                                        | GE 3KHB-D1/LV-ECO-II                                                              | GE 3K6HB-D1/LV-ECO-II | GE 5KHB-D1/LV-ECO-II | GE 6KHB-D1/LV-ECO-II |
|----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|----------------------|----------------------|
| Efficiency                                   |                                                                                   |                       |                      |                      |
| Max. Efficiency                              | 97.3%                                                                             |                       |                      |                      |
| Input (PV)                                   |                                                                                   |                       |                      |                      |
| Max. PV Usable Power                         | 6,000W                                                                            | 7,200W                | 10,000W              | 12,000W              |
| Max. PV Input Voltage                        | 500V                                                                              |                       |                      |                      |
| Start-up Voltage                             | 90V                                                                               |                       |                      |                      |
| MPPT Voltage Range                           | 70V~450V                                                                          |                       |                      |                      |
| Max. Input Current per MPPT                  | 20A/20A                                                                           |                       |                      |                      |
| Max. Short Circuit Current per MPPT          | 25A/25A                                                                           |                       |                      |                      |
| No. of MPP Trackers                          | 2                                                                                 |                       |                      |                      |
| No. of Strings per MPP Tracker               | 1/1                                                                               |                       |                      |                      |
| Input/Output (BAT)                           |                                                                                   |                       |                      |                      |
| Battery Type                                 | Lithium-ion/Lead-acid                                                             |                       |                      |                      |
| Nominal Battery Voltage                      | 48V                                                                               |                       |                      |                      |
| Battery Voltage Range                        | 40V~60V                                                                           |                       |                      |                      |
| Max. Charge/Discharge Current                | 75A/75A                                                                           | 75A/75A               | 110A/110A            | 140A/140A            |
| Max. Charge/Discharge Power                  | 4,000W/4,000W                                                                     | 4,000W/4,000W         | 5,500W/5,500W        | 6,600W/6,600W        |
| Input/Output (Grid)                          |                                                                                   |                       |                      |                      |
| Nominal AC Output Power                      | 3,000W                                                                            | 3,600W                | 5,000W               | 6,000W               |
| Max. AC Output Apparent Power                | 3,300VA                                                                           | 3,960VA               | 5,500VA              | 6,600VA              |
| Nominal AC Output Current                    | 13.6A/13.0A/12.5A                                                                 | 16.4A/15.7A/15.0A     | 22.7A/21.7A/20.8A    | 27.3A/26.1A/25.0A    |
| Max. Grid Passthrough Current (grid to load) | 41A                                                                               |                       |                      |                      |
| Nominal Voltage                              | 220V/230V/240V, L+N+PE                                                            |                       |                      |                      |
| Nominal Frequency                            | 50Hz/60Hz                                                                         |                       |                      |                      |
| Power Factor                                 | > 0.99 @rated power (Adjustable 0.8 LD ~ 0.8 LG)                                  |                       |                      |                      |
| THDI                                         | < 3% @ R Load                                                                     |                       |                      |                      |
| Output (Back up)                             |                                                                                   |                       |                      |                      |
| Nominal AC Output Power                      | 3,000W                                                                            | 3,600W                | 5,000W               | 6,000W               |
| Max. AC Output Apparent Power                | 3,300VA                                                                           | 3,960VA               | 5,500VA              | 6,600VA              |
| Nominal AC Output Current                    | 13.6A/13.0A/12.5A                                                                 | 16.4A/15.7A/15.0A     | 22.7A/21.7A/20.8A    | 27.3A/26.1A/25.0A    |
| Peak Output Apparent Power                   | 200% @10s                                                                         |                       |                      |                      |
| Nominal Voltage                              | 220V/230V/240V, L+N+PE                                                            |                       |                      |                      |
| Nominal Frequency                            | 50Hz/60Hz                                                                         |                       |                      |                      |
| Transfer Time                                | < 10ms (Typical)                                                                  |                       |                      |                      |
| THDV                                         | < 3% @ R Load                                                                     |                       |                      |                      |
| Protection                                   |                                                                                   |                       |                      |                      |
| Protection Category                          | Class I                                                                           |                       |                      |                      |
| PV Switch                                    | Optional                                                                          |                       |                      |                      |
| Anti-islanding Protection                    | Yes                                                                               |                       |                      |                      |
| Overcurrent Protection                       | Yes                                                                               |                       |                      |                      |
| Overvoltage Protection                       | Yes                                                                               |                       |                      |                      |
| AC Short Circuit Protection                  | Yes                                                                               |                       |                      |                      |
| PV Reverse Polarity Protection               | Yes                                                                               |                       |                      |                      |
| Surge Protection                             | Type III                                                                          |                       |                      |                      |
| General                                      |                                                                                   |                       |                      |                      |
| Max. Operation Altitude                      | 4,000m (>2,000m derating)                                                         |                       |                      |                      |
| Operating Temperature Range                  | -25 °C ~60 °C                                                                     |                       |                      |                      |
| Relative Humidity                            | 0~100%                                                                            |                       |                      |                      |
| Ingress Protection Degree                    | IP66                                                                              |                       |                      |                      |
| Cooling Method                               | Smart Cooling                                                                     |                       |                      |                      |
| Mounting                                     | Wall Bracket                                                                      |                       |                      |                      |
| Dimensions (W*H*D)                           | 367mm*421mm*215mm                                                                 |                       |                      |                      |
| Weight                                       | 11.5 kg                                                                           |                       |                      |                      |
| HMI & COM                                    |                                                                                   |                       |                      |                      |
| Display                                      | LED+LCD                                                                           |                       |                      |                      |
| Communication Interfaces                     | RS485/CAN (for BMS), RS485, CAN (for parallel), 1*DO, 1*DI, Wi-Fi, LAN (Optional) |                       |                      |                      |
| Certification                                |                                                                                   |                       |                      |                      |
| Safety                                       | IEC/EN 62109-1/2                                                                  |                       |                      |                      |
| EMC                                          | IEC/EN 61000-6-1/2/3/4, IEC/EN 62920                                              |                       |                      |                      |
| Grid                                         | IEC 61727/62116, IEC 61683                                                        |                       |                      |                      |
| Warranty                                     | 5 Years                                                                           |                       |                      |                      |

Product specifications are subject to change without further notice.



# GE8000-12000

It is applicable to 220/230/240V voltage systems



## SINGLE PHASE & LV BATTERY



### Excellent Performance

- 200% PV oversizing, 160% PV usable power
- 3 MPPTs with 6 PV Strings, 20A Max. Input Current per String
- Max. battery charge/discharge current of 250A
- Max. grid passthrough current of 68.2A



### Safe & Reliable

- IP66: Indoor or outdoor installation
- Seamless transition to backup mode, for protection against power outages
- Arc-fault circuit interruption (AFCI) 2.0 optional



### Highly Flexible

- Support 40-60V Lithium or Lead-acid battery
- Support generator/smart load/AC coupling
- Max. 9 units parallel for on-grid and off-grid operation
- 3 inverters in parallel for three phase



### Intelligent Maintenance

- 4.3" LCD color touchscreen, easy to operate
- 6 time periods for battery charging/discharging
- Built-in WiFi, supporting remote monitoring and upgrade

## Technical Data

| MODEL                                        | GE 8KHB-D1/LV-ECO-II                                                              | GE 10KHB-T1/LV-ECO-II | GE 12KHB-T1/LV-ECO-II |
|----------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|-----------------------|
| <b>Efficiency</b>                            |                                                                                   |                       |                       |
| Max. Efficiency                              | 97.6%                                                                             |                       |                       |
| <b>Input (PV)</b>                            |                                                                                   |                       |                       |
| Max. PV Access Power                         | 16,000W                                                                           | 20,000W               | 24,000W               |
| Max. PV Usable Power                         | 12,800W                                                                           | 16,000W               | 19,200W               |
| Max. PV Input Voltage                        | 500V                                                                              |                       |                       |
| Start-up Voltage                             | 90V                                                                               |                       |                       |
| MPPT Voltage Range                           | 70V-450V                                                                          |                       |                       |
| Max. Input Current per MPPT                  | 2*20A/2*20A                                                                       | 2*20A/2*20A/2*20A     | 2*20A/2*20A/2*20A     |
| Max. Short Circuit Current per MPPT          | 2*25A/2*25A                                                                       | 2*25A/2*25A/2*25A     | 2*25A/2*25A/2*25A     |
| No. of MPP Trackers                          | 2                                                                                 | 3                     | 3                     |
| No. of Strings per MPP Tracker               | 2/2                                                                               | 2/2/2                 | 2/2/2                 |
| <b>Input/Output (BAT)</b>                    |                                                                                   |                       |                       |
| Battery Type                                 | Lithium-ion/Lead-acid                                                             |                       |                       |
| Nominal Battery Voltage                      | 48V                                                                               |                       |                       |
| Battery Voltage Range                        | 40V-60V                                                                           |                       |                       |
| Max. Charge/Discharge Current                | 190A/190A                                                                         | 220A/220A             | 250A/250A             |
| <b>Input/Output (Grid)</b>                   |                                                                                   |                       |                       |
| Nominal AC Output Power                      | 8,000W                                                                            | 10,000W               | 12,000W               |
| Max. AC Output Apparent Power                | 8,800VA                                                                           | 11,000VA              | 13,200VA              |
| Nominal AC Output Current                    | 36.4A/34.8A/33.3A                                                                 | 45.5A/43.5A/41.7A     | 54.5A/52.2A/50.0A     |
| Max. AC Output Current                       | 40A                                                                               | 50A                   | 60A                   |
| Max. Grid Passthrough Current (grid to load) | 68.2A                                                                             |                       |                       |
| Nominal Voltage                              | 220V/230V/240V, L+N+PE                                                            |                       |                       |
| Nominal Frequency                            | 50Hz/60Hz                                                                         |                       |                       |
| Power Factor                                 | > 0.99 @rated power (Adjustable 0.8 LD - 0.8 LG)                                  |                       |                       |
| THDI                                         | < 3% @ R Load                                                                     |                       |                       |
| <b>Output (Back up)</b>                      |                                                                                   |                       |                       |
| Nominal AC Output Power                      | 8,000W                                                                            | 10,000W               | 12,000W               |
| Max. AC Output Apparent Power                | 8,800VA                                                                           | 11,000VA              | 13,200VA              |
| Nominal AC Output Current                    | 36.4A/34.8A/33.3A                                                                 | 45.5A/43.5A/41.7A     | 54.5A/52.2A/50.0A     |
| Max. AC Output Current                       | 40A                                                                               | 50A                   | 60A                   |
| Peak Output Apparent Power                   | 200% @10s                                                                         |                       |                       |
| Nominal Voltage                              | 220V/230V/240V, L+N+PE                                                            |                       |                       |
| Nominal Frequency                            | 50Hz/60Hz                                                                         |                       |                       |
| Transfer Time                                | < 10ms (Typical)                                                                  |                       |                       |
| THDV                                         | < 3% @ R Load                                                                     |                       |                       |
| <b>Protection</b>                            |                                                                                   |                       |                       |
| Protection Category                          | Class I                                                                           |                       |                       |
| PV Switch                                    | Optional                                                                          |                       |                       |
| Anti-islanding Protection                    | Yes                                                                               |                       |                       |
| Overcurrent Protection                       | Yes                                                                               |                       |                       |
| Overvoltage Protection                       | Yes                                                                               |                       |                       |
| AC Short Circuit Protection                  | Yes                                                                               |                       |                       |
| PV Reverse Polarity Protection               | Yes                                                                               |                       |                       |
| Surge Protection                             | Type III                                                                          |                       |                       |
| <b>General</b>                               |                                                                                   |                       |                       |
| Max. Operation Altitude                      | 4,000m (>2,000m derating)                                                         |                       |                       |
| Operating Temperature Range                  | -25 °C ~60 °C                                                                     |                       |                       |
| Relative Humidity                            | 0-100%                                                                            |                       |                       |
| Ingress Protection Degree                    | IP66                                                                              |                       |                       |
| Cooling Method                               | Smart Cooling                                                                     |                       |                       |
| Mounting                                     | Wall Bracket                                                                      |                       |                       |
| Dimensions (W*H*D)                           | 443mm*679mm*210mm                                                                 |                       |                       |
| Weight                                       | 29kg                                                                              | 31.1kg                | 31.1kg                |
| <b>HMI &amp; COM</b>                         |                                                                                   |                       |                       |
| Display                                      | LED+LCD                                                                           |                       |                       |
| Communication Interfaces                     | RS485/CAN (for BMS), RS485, CAN (for parallel), 1*DO, 1*DI, Wi-Fi, LAN (Optional) |                       |                       |
| <b>Certification</b>                         |                                                                                   |                       |                       |
| Safety                                       | IEC/EN 62109-1/2                                                                  |                       |                       |
| EMC                                          | IEC/EN 61000-6-1/2/3/4, IEC/EN 62920                                              |                       |                       |
| Grid                                         | IEC 61727/62116, IEC 61683                                                        |                       |                       |
| Warranty                                     | 5 Years                                                                           |                       |                       |

Product specifications are subject to change without further notice.



# GN6000-15000

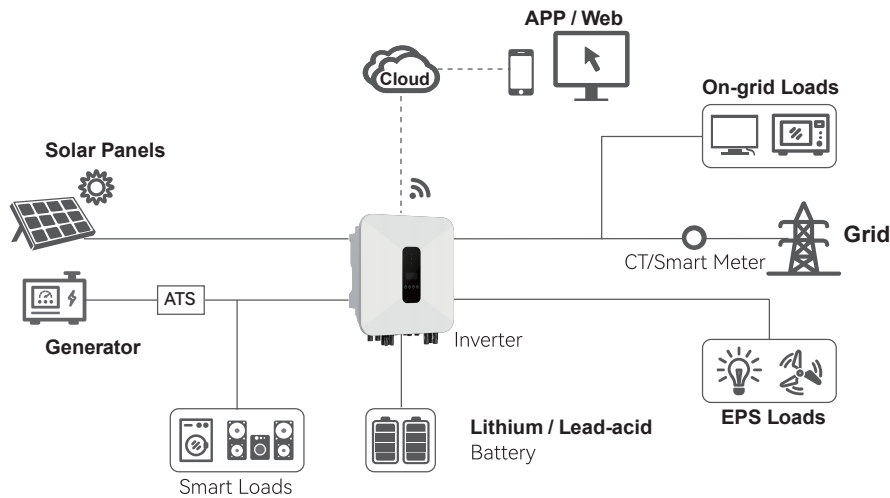
## Single Phase Hybrid Inverter

It is applicable to 220/380, 230/400, 240/415 voltage systems



- Wide MPPT range.
- 2 MPPT trackers.
- Max 2 PV strings per MPPT tracker
- Peak efficiency 98.4%
- IP66 protection level
- Integrated and concise design

### System Diagram



### Technical Data

| MODEL                                      | GN6KT-BH1                                                                                   | GN8KT-BH1 | GN10KT-BH2 | GN12KT-BH2 | GN15KT-BH2 |
|--------------------------------------------|---------------------------------------------------------------------------------------------|-----------|------------|------------|------------|
| PV Input                                   |                                                                                             |           |            |            |            |
| Max. PV Input Power(kW)                    | 9                                                                                           | 12        | 15         | 18         | 22.5       |
| Max. PV Open Circuit Voltage(V)            | 1000                                                                                        |           |            |            |            |
| MPPT Range@Operating Voltage(VDC)          | 120~950                                                                                     |           |            |            |            |
| Full Power MPPT Voltage Range(VDC)         | 380~950                                                                                     |           |            |            |            |
| Start-up Voltage(VDC)                      | 120                                                                                         |           |            |            |            |
| Nominal Input Voltage(V)                   | 780                                                                                         |           |            |            |            |
| Max. Input Current per MPPT(A)             | 15                                                                                          | 15        | 15/15      | 30/15      | 30/30      |
| Max. Short-circuit Current(A)              | 36                                                                                          | 36        | 36/36      | 36/36      | 36/36      |
| MPPT Tracker /Strings                      | 1                                                                                           | 1         | 2          | 2          | 2          |
| PV Strings per MPPT Tracker                | 1                                                                                           | 1         | 1/1        | 2/1        | 2/2        |
| AC Output(On-Grid)                         |                                                                                             |           |            |            |            |
| Nominal Output Apparent Power to Grid(kVA) | 6                                                                                           | 8         | 10         | 12         | 15         |
| Max. Apparent Power to Grid(kVA)           | 6.6                                                                                         | 8.8       | 11         | 13.2       | 16.5       |
| Max. Output Current to Grid(A)             | 10                                                                                          | 13.4      | 16.7       | 20         | 25         |
| Nominal Apparent Power from Grid(kVA)      | 6                                                                                           | 8         | 10         | 12         | 15         |
| Max. Apparent Power from Grid(kVA)         | 12                                                                                          | 16        | 20         | 24         | 24         |
| Max. Current from Grid(A)                  | 18.3                                                                                        | 24.4      | 30.4       | 36.5       | 36.5       |
| Nominal Voltage/Frequency                  | 220/380, 230/400, 240/415, 50/60Hz, L1/L2/L3+N+PE                                           |           |            |            |            |
| Adjustable Power Factor                    | 0.8leading~0.8lagging                                                                       |           |            |            |            |
| THDI                                       | <3%                                                                                         |           |            |            |            |
| AC Output(BackUp)                          |                                                                                             |           |            |            |            |
| Nominal Output Power(kW)                   | 6                                                                                           | 8         | 10         | 12         | 15         |
| Max. Apparent Power(kVA)                   | 6.6                                                                                         | 8.8       | 11         | 13.2       | 16.5       |
| Max. Output Current(A)                     | 10                                                                                          | 13.4      | 16.7       | 20         | 25         |
| Nominal Voltage/Frequency                  | 220/380, 230/400, 240/415, 50/60Hz, L1/L2/L3+N+PE                                           |           |            |            |            |
| Automatic Switch Time(ms)                  | <10                                                                                         |           |            |            |            |
| THDu                                       | <2%                                                                                         |           |            |            |            |
| Overload Capacity                          | 110%, 30s / 120%, 10s / 150%, 0.02s                                                         |           |            |            |            |
| Efficiency                                 |                                                                                             |           |            |            |            |
| Max. Efficiency                            | 98.30%                                                                                      | 98.30%    | 98.30%     | 98.40%     | 98.40%     |
| Europe Efficiency                          | 9790%                                                                                       | 9790%     | 9790%      | 98.00%     | 98.00%     |
| Max. Battery Charge/Discharge Efficiency   | 9740%                                                                                       | 9740%     | 9740%      | 97.30%     | 97.30%     |
| Battery                                    |                                                                                             |           |            |            |            |
| BatteryVoltage Range(V)                    | 100~710                                                                                     |           |            |            |            |
| Max. Charging/Discharging Current(A)       | 50/50                                                                                       |           |            |            |            |
| Max. Charging/Discharging Power(kW)        | 6/6                                                                                         | 8/8       | 10/10      | 12/12      | 15/15      |
| BatteryType                                | Lithium                                                                                     |           |            |            |            |
| Protection                                 |                                                                                             |           |            |            |            |
| DC Switch                                  | Yes                                                                                         |           |            |            |            |
| DC Reverse Polarity Protection(PV/Batt)    | Yes                                                                                         |           |            |            |            |
| DC/AC Surge Protection                     | Type II/Type II                                                                             |           |            |            |            |
| AC Overvoltage Protection                  | Yes                                                                                         |           |            |            |            |
| AC Overcurrent Protection                  | Yes                                                                                         |           |            |            |            |
| AC Short-circuit Protection                | Yes                                                                                         |           |            |            |            |
| Anti-islanding Protection                  | Yes                                                                                         |           |            |            |            |
| Residual-current Monitoring                | Yes                                                                                         |           |            |            |            |
| Insulation Resistance Monitoring           | Yes                                                                                         |           |            |            |            |
| General Data                               |                                                                                             |           |            |            |            |
| HMI                                        | LCD & APP                                                                                   |           |            |            |            |
| BMS                                        | RS485; CAN                                                                                  |           |            |            |            |
| EMS/Meter                                  | RS485                                                                                       |           |            |            |            |
| Communication                              | WiFi/Ethernet                                                                               |           |            |            |            |
| Ingress Protection                         | IP66                                                                                        |           |            |            |            |
| Operating Temperature Range                | -25~60°C                                                                                    |           |            |            |            |
| Relative Humidity                          | 0~100%(Non-condensing)                                                                      |           |            |            |            |
| Max. Operating Altitude                    | 4000m(Derating above 3000m)                                                                 |           |            |            |            |
| Cooling                                    | Smart Fan                                                                                   |           |            |            |            |
| Topology                                   | Transformerless                                                                             |           |            |            |            |
| Dimensions(W*H*D, mm)                      | 485*525*245mm(without terminal and bracket)                                                 |           |            |            |            |
| Net Weight(kg)                             | 30                                                                                          | 30        | 32         | 33         | 33         |
| Self-consumption(W)                        | <15                                                                                         |           |            |            |            |
| Standard Compliance                        |                                                                                             |           |            |            |            |
| Safety Regulation                          | IEC/EN62109-1/-2                                                                            |           |            |            |            |
| EMC                                        | IEC/EN61000-6-1/-2/-3/-4                                                                    |           |            |            |            |
| GridRegulation                             | Europe: EN50549, Belgium: C10/T1, Germany: VDE-AR-N 4105, Italy: CEI 0-21, UNE217001/217002 |           |            |            |            |

Product specifications are subject to change without further notice.



# GN3000-6000

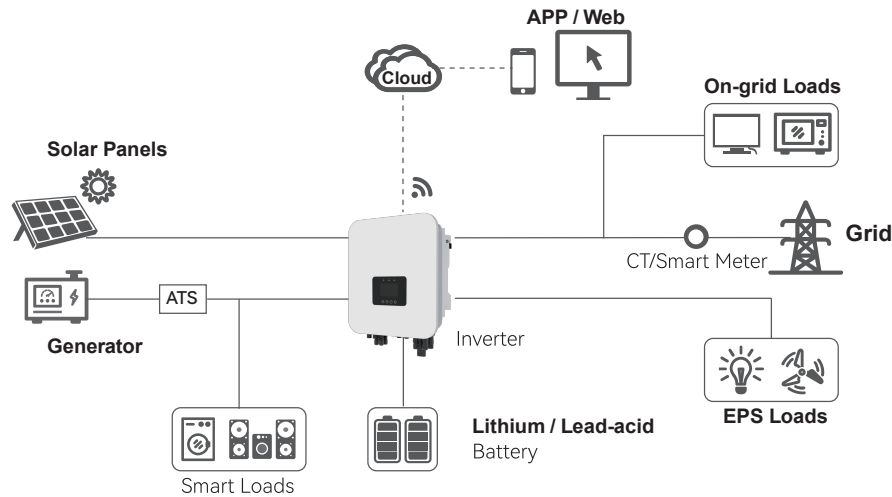
## Single Phase Hybrid Inverter

It is applicable to 230V voltage systems



- Wide MPPT range.
- 2 MPPT trackers.
- Type II SPD on DC/AC.
- 3 inverters in parallel
- 19A MPPT input current per string.
- IP66 protection level.
- Support generator and smart loads.
- Touch screen

### System Diagram



### Technical Data

| MODEL                                    | GN3KS-AH2GT                                                                                                  | GN3K6S-AH2GT | GN4K6S-AH2GT | GN5KS-AH2GT | GN6KS-AH2GT |
|------------------------------------------|--------------------------------------------------------------------------------------------------------------|--------------|--------------|-------------|-------------|
| PV Input                                 |                                                                                                              |              |              |             |             |
| Max. PV Input Power(kW)                  | 4.5                                                                                                          | 5.5          | 6            | 7.5         | 9           |
| Max. PV Open Circuit Voltage(V)          | 550                                                                                                          |              |              |             |             |
| MPPT Range@Operating Voltage(VDC)        | 80-520                                                                                                       |              |              |             |             |
| Full Power MPPT Voltage Range(VDC)       | 117-500V                                                                                                     | 145-500V     | 158-500V     | 197-500V    | 250-00V     |
| Start-up Voltage(VDC)                    | 100                                                                                                          |              |              |             |             |
| Max. Input Current per MPPT(A)           | 19/19                                                                                                        |              |              |             |             |
| Max. Short-circuit Current(A)            | 25/25                                                                                                        |              |              |             |             |
| MPPT Tracker/Strings                     | 2/1                                                                                                          |              |              |             |             |
| Nominal Input Voltage(V)                 | 360                                                                                                          |              |              |             |             |
| AC Output(On-Grid)                       |                                                                                                              |              |              |             |             |
| Nominal Output Power to Grid(kW)         | 3                                                                                                            | 3.68         | 4            | 5           | 6           |
| Max. Apparent Power to Grid(kVA)         | 3                                                                                                            | 3.68         | 4            | 5           | 6           |
| Max. Apparent Power from Grid(kVA)       | 3                                                                                                            | 3.68         | 4            | 5           | 6           |
| Max. Apparent Current from Grid(A)       | 13.1                                                                                                         | 16           | 17.4         | 21.8        | 26.1        |
| Nominal Output Current from Grid(A)      | 13.1                                                                                                         | 16           | 17.4         | 21.8        | 26.1        |
| Max. Output Current to Grid(A)           | 13.1                                                                                                         | 16           | 17.4         | 21.8        | 26.1        |
| Nominal Voltage/Frequency                | 230V(176V~280V), 50/60Hz, L+N+PE                                                                             |              |              |             |             |
| Adjustable Power Factor                  | 0.8leading-0.8lagging                                                                                        |              |              |             |             |
| THDI                                     | <2%                                                                                                          |              |              |             |             |
| AC Output(BackUp)                        |                                                                                                              |              |              |             |             |
| Nominal Output Power(kW)                 | 3                                                                                                            | 3.68         | 4            | 5           | 6           |
| Max. Apparent Power(kVA)                 | 3                                                                                                            | 3.68         | 4            | 5           | 6           |
| Nominal Output Current(A)                | 13.1                                                                                                         | 16           | 17.4         | 21.8        | 26.1        |
| Max. Output Current(A)                   | 13.1                                                                                                         | 16           | 17.4         | 21.8        | 26.1        |
| Nominal Voltage/Frequency                | 230V(176V~238V), 50/60Hz, L+N+PE                                                                             |              |              |             |             |
| Automatic Switch Time(ms)                | <20                                                                                                          |              |              |             |             |
| THDu                                     | <2%                                                                                                          |              |              |             |             |
| Overload Capacity                        | 110%, 10s / 150%, 5s / 180%, 1s / 200%, 100ms                                                                |              |              |             |             |
| Efficiency                               |                                                                                                              |              |              |             |             |
| Max. Efficiency                          | 96.13%                                                                                                       |              |              |             |             |
| Europe Efficiency                        | 95.50%                                                                                                       |              |              |             |             |
| MPPT Efficiency                          | 99.99%                                                                                                       |              |              |             |             |
| Max. Battery Charge/Discharge Efficiency | 94.60%                                                                                                       |              |              |             |             |
| Battery                                  |                                                                                                              |              |              |             |             |
| BatteryVoltage Range(V)                  | 40-60                                                                                                        |              |              |             |             |
| Recommended Battery Voltage(V)           | 48                                                                                                           |              |              |             |             |
| Max. Charging Voltage(V)                 | 60                                                                                                           |              |              |             |             |
| Max. Charging/Discharging Current(A)     | 80/80                                                                                                        | 80/80        | 80/80        | 120/120     | 120/120     |
| BatteryType                              | Lithium and Lead Acid Batter                                                                                 |              |              |             |             |
| Protection                               |                                                                                                              |              |              |             |             |
| DC Switch                                | Yes                                                                                                          |              |              |             |             |
| DC Reverse Polarity Protection           | Yes                                                                                                          |              |              |             |             |
| DC/AC Surge Protection                   | Type II/Type II                                                                                              |              |              |             |             |
| AC Overvoltage Protection                | Yes                                                                                                          |              |              |             |             |
| AC Short-circuit Protection              | Yes                                                                                                          |              |              |             |             |
| Ground Fault Monitoring                  | Yes                                                                                                          |              |              |             |             |
| Anti-islanding Protection                | Yes                                                                                                          |              |              |             |             |
| Residual-current Monitoring              | Yes                                                                                                          |              |              |             |             |
| Insulation Resistance Monitoring         | Yes                                                                                                          |              |              |             |             |
| Peak/Valley Time Setting                 | Yes                                                                                                          |              |              |             |             |
| General Data                             |                                                                                                              |              |              |             |             |
| HMI                                      | Touch LCD & APP                                                                                              |              |              |             |             |
| BMS                                      | RS485; CAN                                                                                                   |              |              |             |             |
| EMS/Meter                                | RS485                                                                                                        |              |              |             |             |
| Communication                            | WiFi/LAN                                                                                                     |              |              |             |             |
| Ingress Protection                       | IP66                                                                                                         |              |              |             |             |
| Operating Temperature Range              | -25~60°C                                                                                                     |              |              |             |             |
| Relative Humidity                        | 0~95%(Non-condensing)                                                                                        |              |              |             |             |
| Max. Operating Altitude                  | 4000m(Derating above 3000m)                                                                                  |              |              |             |             |
| Cooling                                  | Natural                                                                                                      |              |              |             |             |
| Noise Emission                           | ≤ 29dB                                                                                                       |              |              |             |             |
| Dimensions(W*H*D)                        | 485*525*220mm(without terminal and bracket)                                                                  |              |              |             |             |
| Net Weight(kg)                           | 23.5                                                                                                         | 23.5         | 23.5         | 24          | 24          |
| Self-consumption(W)                      | <15                                                                                                          |              |              |             |             |
| Standard Compliance                      |                                                                                                              |              |              |             |             |
| Safety Regulation                        | IEC/EN62109-1/-2                                                                                             |              |              |             |             |
| EMC                                      | IEC/EN61000-6-1/-2/-3/-4                                                                                     |              |              |             |             |
| GridRegulation                           | IEC61727; IEC62116; Europe: EN50549; Belgium: C10/T1; Spain: UNE217002;Italy: CEI 021; South Africa: NRS 097 |              |              |             |             |

Product specifications are subject to change without further notice.



# HN15000

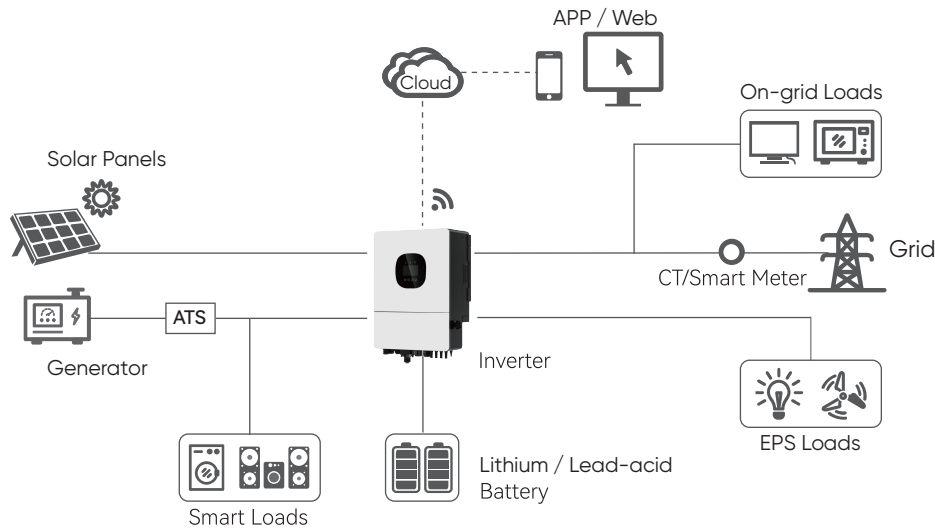
## Three Phase Hybrid Inverter

It is applicable to 220/380, 230/400, 240/415 voltage systems



- Two MPPT channels, with 2 strings per channel.
- 30A input current per MPPT.
- 48V low-voltage battery with built-in transformer for safe isolation.
- Supports three-phase unbalanced output.
- Maximum charge/discharge current of 290A.
- 6 configurable charge/discharge time periods.
- Supports generator and smart load.
- generator charges the battery directly.

### System Diagram



### Technical Data

| MODEL                                       | HN15KT-AH2GT                                          |
|---------------------------------------------|-------------------------------------------------------|
| <b>PV Input</b>                             |                                                       |
| Max. PV Input Power(kW)                     | 22.5                                                  |
| Max. PV Open Circuit Voltage(V)             | 1000                                                  |
| MPPT Range@Operating Voltage(VDC)           | 120-950                                               |
| Full Power MPPT Voltage Range(VDC)          | 380-850                                               |
| Start-up Voltage(VDC)                       | 120                                                   |
| Nominal Input Voltage(V)                    | 780                                                   |
| Max. Input Current per MPPT(A)              | 30/30                                                 |
| Max. Short-circuit Current(A)               | 36/36                                                 |
| MPPT Tracker /Strings                       | 2                                                     |
| PV Strings per MPPT Tracker                 | 2/2                                                   |
| <b>AC Output(On-Grid)</b>                   |                                                       |
| Nominal Output Apparent Power to Grid (kVA) | 15                                                    |
| Max. Apparent Power to Grid (kVA)           | 16.5                                                  |
| Max. Output Current to Grid (A)             | 23.9                                                  |
| Nominal Apparent Power from Grid (kVA)      | 15                                                    |
| Max. Apparent Power from Grid (kVA)         | 24                                                    |
| Max. Current from Grid (A)                  | 34.7                                                  |
| Nominal Voltage (V)/Frequency (Hz)          | 220/380, 230/400, 240/415, 50/60, L1/L2/L3+N+PE       |
| Adjustable Power Factor                     | 0.8leading-0.8lagging                                 |
| THDI                                        | <3%                                                   |
| <b>AC Output(BackUp)</b>                    |                                                       |
| Nominal Output Power(kW)                    | 15                                                    |
| Max. Apparent Power(kVA)                    | 16.5                                                  |
| Max. Output Current(A)                      | 23.9                                                  |
| Nominal Voltage (V)/Frequency (Hz)          | 220/380, 230/400, 240/415, 50/60, L1/L2/L3+N+PE       |
| Automatic Switch Time(ms)                   | <10                                                   |
| THDu                                        | <2%                                                   |
| Overload Capacity                           | 110%, long term / 150%, 3min / 180%, 2min / 200%, 10s |
| <b>Efficiency</b>                           |                                                       |
| Max. Efficiency                             | 97.30%                                                |
| Europe Efficiency                           | 97.00%                                                |
| Max. Battery Charge/Discharge Efficiency    | 94.10%                                                |
| <b>Battery</b>                              |                                                       |
| Battery Voltage Range(V)                    | 40-60                                                 |
| Max. Charging/Discharging Current (A)       | 290/290                                               |
| Max. Charging/Discharging Power (kW)        | 15/16                                                 |
| Battery Type                                | Lithium / Lead-acid                                   |
| <b>Protection</b>                           |                                                       |
| DC Switch                                   | Yes                                                   |
| DC Reverse Polarity Protection(PV)          | Yes                                                   |
| DC/AC Surge Protection                      | Type II / Type III                                    |
| AC Over voltage Protection                  | Yes                                                   |
| AC Over current Protection                  | Yes                                                   |
| AC Short-circuit Protection                 | Yes                                                   |
| Anti-islanding Protection                   | Yes                                                   |
| Residual-current Monitoring                 | Yes                                                   |
| Insulation Resistance Monitoring            | Yes                                                   |
| <b>General Data</b>                         |                                                       |
| HMI                                         | Touch LCD & APP                                       |
| BMS                                         | RS485; CAN                                            |
| CT/Meter                                    | Included / RS485                                      |
| Communication                               | RS485, WIFI / Ethernet, USB                           |
| Ingress Protection                          | IP65                                                  |
| Operating Temperature Range( C )            | -25-60                                                |
| Relative Humidity                           | 0-100%(Non-condensing)                                |
| Max. Operating Altitude(m)                  | 4000(Derating above 2000)                             |
| Cooling                                     | Intelligent Air Cooling                               |
| Topology                                    | Transformerless                                       |
| Dimensions (H*W*D, mm)                      | 660*478*248 (without terminal and bracket)            |
| Net Weight(kg)                              | 43                                                    |
| Self-consumption(W)                         | <20                                                   |
| <b>Standard Compliance</b>                  |                                                       |
| Safety Regulation                           | IEC/EN62109-1/-2                                      |
| EMC                                         | IEC/EN61000-6-1/-2/-3/-4                              |
| Grid Regulation                             | EN50549-1/-10                                         |

Product specifications are subject to change without further notice.

# Hybrid Battery ESS

## Hybrid All IN ONE

Max. on/off-grid output 4800W

## NFC

ECU configuration method

## 5kWh

small size, large capacity

## IP65

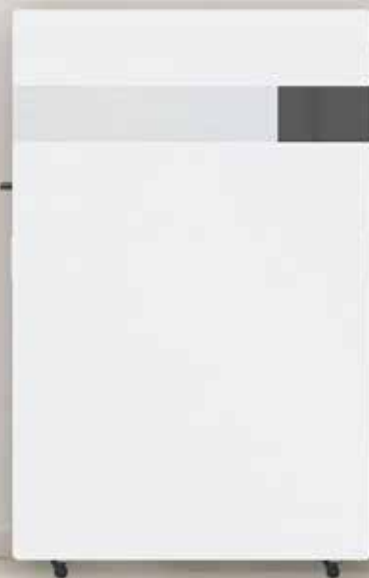
Waterproof and Shock Resistant

## 10Years

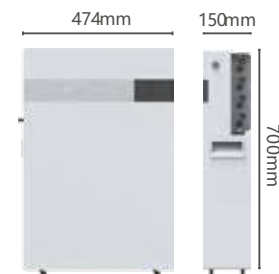
10 Years Lifespan

## -20°C ~ +55°C

Thermal Boosting Technology



## Technical Data



|                                         |                                                                                                             |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| Model                                   | L-A50                                                                                                       |
| Battery Info                            |                                                                                                             |
| Rated Voltage                           | 51.2V                                                                                                       |
| Capacity                                | 5000Wh                                                                                                      |
| Life Cycle (Times)                      | >6000(25°C)                                                                                                 |
| Battery Type                            | LiFePO <sub>4</sub>                                                                                         |
| DoD                                     | 90%                                                                                                         |
| Max Charging Power                      | 5000W                                                                                                       |
| AC Input/Output (On Grid)               |                                                                                                             |
| Rated Input Power                       | 2.5kVA                                                                                                      |
| Rated Output Power                      | 2.5kVA                                                                                                      |
| Operating Phase                         | L/N/PE                                                                                                      |
| Rated Grid Voltage                      | 230V                                                                                                        |
| Grid Voltage Range                      | 187V~253V                                                                                                   |
| Rated Grid Frequency                    | 50Hz                                                                                                        |
| Rated Grid Output Current               | 21.7A                                                                                                       |
| Power Factor                            | > 0.99(Default)/0.8 leading...0.8lagging (Adjustable)                                                       |
| THDi                                    | < 3%                                                                                                        |
| Back-up (Off Grid)                      |                                                                                                             |
| Rated Output Power                      | 5kVA                                                                                                        |
| Max.Apparent Output Power               | 5.5kVA,10s                                                                                                  |
| Rated Grid Voltage                      | 230V                                                                                                        |
| Rated Output Current                    | 21.7A                                                                                                       |
| Rated Output Voltage Frequency          | 50Hz                                                                                                        |
| THDu(Linear Load)                       | < 3%                                                                                                        |
| Efficiency                              |                                                                                                             |
| Battery-AC Side Max.Efficiency          | > 93.5%                                                                                                     |
| Protection                              |                                                                                                             |
| Protection Level                        | I                                                                                                           |
| Overvoltage/Voltage Withstand Level     | DCII/ACIII                                                                                                  |
| General                                 |                                                                                                             |
| Isolation Type                          | Isolated                                                                                                    |
| Operating Temperature Range             | -20°C~+55°C(Storage-30°C~+85°C)                                                                             |
| Relative Humidity                       | 0~95%                                                                                                       |
| Ingress Protection                      | IP65                                                                                                        |
| Cooling Strategy                        | Natural Convection                                                                                          |
| Max.Operating Altitude                  | 2000m                                                                                                       |
| On-grid Connection Standard             | EN50549-1,VDE4105/0124                                                                                      |
| Regulatory/EMC                          | IEC62040,IEC62477,IEC/EN 61000-6-1/-2/-3/-4,IEC/EN 61000-3-2/-3,EN 300328,EN 301489-1/-17, EN50665,CB 62619 |
| Dimension                               | 700*474*150mm                                                                                               |
| Weight                                  | 54±0.5kg                                                                                                    |
| Additional Data                         |                                                                                                             |
| Display                                 | TFT                                                                                                         |
| Supported Communication Interface       | Bluetooth & Wi-Fi                                                                                           |
| PV Input                                |                                                                                                             |
| Maximum input voltage (V)               | 60                                                                                                          |
| Operating voltage range (V)             | 18-60                                                                                                       |
| Start-up voltage (V)                    | 18                                                                                                          |
| Number of MPPT                          | 4                                                                                                           |
| Input rated current(A)                  | 30*4                                                                                                        |
| Maximum input short circuit current (A) | 50*4                                                                                                        |
| Maximum input power(W)                  | 1200W*4                                                                                                     |

# Micro DC ESS

## Balcony Micro Energy Storage

S3-20



### Safety and Reliability

High-Voltage Cell Boost Technology  
Powered By LiFePO4 Batteries

**40%+**  
Volume  
reduced

**88.2%**  
Energy density  
increased



### Product Highlights

**2 - 10 kWh**

Easily expandable to 10 kWh capacity

 +  = **10 kWh**  
S3-20 4 x expansion battery 10 kWh capacity



**Compact Size  
Massive Power**

Volume reduced  
by over 40%



**IP65**

IP65 waterproof

**-20°C**

Operate at -20~55°C



**Smart App**

Real-time Monitoring  
and Control



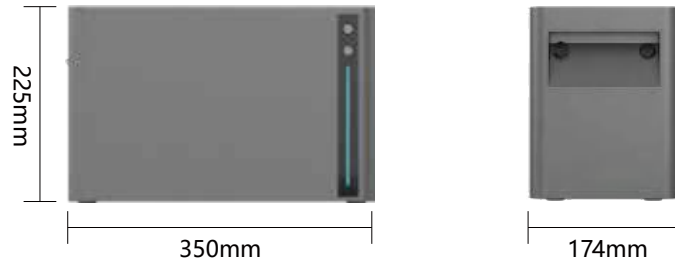
**6000**

Life Cycles

**15years**

Lifespan





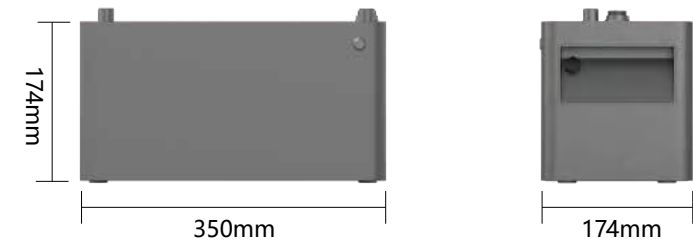
| Model          |                                            | S3-20                                   |
|----------------|--------------------------------------------|-----------------------------------------|
| PV Input       | Recommended Module Power (W)               | 300-600+                                |
|                | Maximum PV Input Power (W)                 | 2400                                    |
|                | Startup Voltage (V)                        | 15                                      |
|                | Maximum Single-channel Input Voltage (V)   | 60                                      |
|                | Single-channel Operating Voltage Range (V) | 13-60                                   |
|                | MPPT Voltage Range (V)                     | 20-54                                   |
|                | Single-channel Short-circuit Current (A)   | 40                                      |
|                | Maximum Single-channel Input Current (A)   | 32                                      |
|                | Number of Input Channels                   | 2                                       |
| Battery Info   | Maximum Number of Modules per Channel      | 2                                       |
|                | Battery Type                               | LFP                                     |
|                | Battery Capacity (kWh)                     | 2.01                                    |
|                | Maximum Expandable Capacity (kWh)          | 10                                      |
|                | Rated Voltage (V)                          | 51.2                                    |
|                | Operating Voltage Range (V)                | 43.2-57.6                               |
|                | Rated Discharge Power (W)                  | 800                                     |
|                | Maximum Discharge Current (A)              | 30                                      |
|                | Maximum Charge Power (W)                   | 2400(Extended battery pack)             |
| DC Output      | Rated Discharge Current (A)                | 25                                      |
|                | Maximum Output Power (W)                   | 1200                                    |
|                | Maximum Current (A)                        | 30                                      |
| Efficiency     | Output Voltage Range (V)                   | 20-45                                   |
|                | MPPT Efficiency                            | 99.90%                                  |
|                | Battery Charge-Discharge Efficiency        | 94.00%                                  |
| General        | Dimensions (L×W×H, mm)                     | 350*174*225                             |
|                | Weight (kg)                                | 20                                      |
|                | Communication                              | WiFi(BT)+RS485                          |
|                | Protection Class                           | IP65                                    |
|                | Cooling Method                             | Natural Cooling                         |
|                | Operating temperature                      | -20~55°C                                |
|                | Relative Humidity                          | 0-95%, No Condensation                  |
|                | Maximum Operating Altitude (m)             | 2000                                    |
| Certifications |                                            | CE; WEEE; UN38.3; ROHS; REACH; IEC62619 |

### Easily connect expansion battery



### 2-10 kWh capacity

Supports connection of up to 4 Expansion Batteries



| Model             |                                | SE-20                                   |
|-------------------|--------------------------------|-----------------------------------------|
| battery pack info | Battery Type                   | LFP                                     |
|                   | Battery Capacity (kWh)         | 2.01                                    |
|                   | Rated Voltage (V)              | 51.2                                    |
|                   | Operating Voltage Range (V)    | 43.2-57.6                               |
|                   | Rated Discharge Power (W)      | 800                                     |
|                   | Maximum Discharge Current (A)  | 25                                      |
| General           | Dimensions (L×W×H, mm)         | 350*174*182                             |
|                   | Weight (kg)                    | 18                                      |
|                   | Protection Class               | IP65                                    |
|                   | Cooling Method                 | Natural Cooling                         |
|                   | Operating temperature          | -20~55°C                                |
|                   | Relative Humidity              | 0-95%, No Condensation                  |
|                   | Maximum Operating Altitude (m) | 2000                                    |
| Certifications    |                                | CE; WEEE; UN38.3; ROHS; REACH; IEC62619 |

# DC CHARGING PILE

## EV DC Charging Pile Series

SKEV-120-B012, SKEV-160-B013,  
SKEV-200-B014, SKEV-240-B015

- Low-noise Operation:  $\leq 60\text{dB}$  quiet-grade design, avoiding environmental disturbance, suitable for noise-sensitive scenarios such as industrial parks and residential areas.
- Flexible Power Allocation: Dual guns share total power with real-time dynamic scheduling, well-suited for scenarios with multiple vehicles charging simultaneously, improving equipment utilization and charging experience.
- Comprehensive Safety Protection: Intelligently monitors battery status with full-range protection to prevent over-charging and over-temperature for worry-free charging.



### Product Description



- ① Antenna
- ② Air-intake Grille
- ③ Product Logo
- ④ Status Indicator Light
- ⑤ Display Screen
- ⑥ Card Swipe Area
- ⑦ Emergency Stop Button
- ⑧ Charging Gun A
- ⑨ Charging Gun B
- ⑩ QR Code

### Product Description



| MODEL                               | SKEV-120-B012                                                                                                                                                                | SKEV-160-B013     | SKEV-200-B014     | SKEV-240-B015     |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|
| Input Voltage                       | Three-phase four-wire AC 380V $\pm 15\%$ , 50Hz $\pm 2\text{Hz}$                                                                                                             |                   |                   |                   |
| Rated AC Current                    | 190A                                                                                                                                                                         | 250A              | 310A              | 370A              |
| Max. Charging Power                 | 120kW                                                                                                                                                                        | 160kW             | 200kW             | 240kW             |
| Output Channels                     | Dual-gun                                                                                                                                                                     | Dual-gun          | Dual-gun          | Dual-gun          |
| Charging Voltage Range              | DC200-1000V                                                                                                                                                                  |                   |                   |                   |
| Max. Current per Gun                | 250A                                                                                                                                                                         | 250A              | 250A              | 250A              |
| Weight (with charging modules)      | 170kg                                                                                                                                                                        | 192kg             | 209kg             | 227kg             |
| Standby Power Consumption           | $\leq 15\text{W}$                                                                                                                                                            | $\leq 15\text{W}$ | $\leq 15\text{W}$ | $\leq 15\text{W}$ |
| Power Factor / Efficiency           | Power Factor $\geq 0.99$ ; Peak Efficiency $\geq 95\%$ ; 20%-50% load efficiency $\geq 94\%$                                                                                 |                   |                   |                   |
| Cable Length                        | 5m                                                                                                                                                                           |                   |                   |                   |
| Ingress Protection                  | IP54                                                                                                                                                                         |                   |                   |                   |
| Dimension (W $\times$ D $\times$ H) | 812mm $\times$ 610mm $\times$ 1800mm                                                                                                                                         |                   |                   |                   |
| Housing Material & Process          | Sheet metal workmanship, wear-resistant, corrosion-resistant, heat-resistant; outdoor-proof design, surface spray-coating treatment                                          |                   |                   |                   |
| Communication Interface             | Built-in 4G/GPRS & Ethernet; supporting remote fault diagnosis, daily log export, OTA firmware upgrade                                                                       |                   |                   |                   |
| Safety Protection                   | Over-current, over-voltage, under-voltage, short-circuit, earth-leakage, lightning protection, anti-reverse-connection protection, high-temperature automatic power derating |                   |                   |                   |
| Charging Mode                       | APP QR-code scan, card swiping, reservation charging; support energy / time / amount modes                                                                                   |                   |                   |                   |
| Compliant Standards                 | GB/T 20234.3, GB/T 18487.1-2023, GB/T 27930                                                                                                                                  |                   |                   |                   |
| Noise                               | $\leq 55\text{dB}$ (1-meter front distance, full-power operation)                                                                                                            |                   |                   |                   |
| Cooling Method                      | Air cooling; full-aluminum louver, low-noise, long-life fan                                                                                                                  |                   |                   |                   |
| Operating Environment               | Temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ ; Humidity: 5%-95% RH (non-condensing); Altitude: $\leq 2000\text{m}$                                            |                   |                   |                   |
| Packing & Transportation            | Wooden pallet wrapped with film & carton cushioning; stacking $\leq 1$ layer; highway & railway transport; avoid heavy pressure & overturning                                |                   |                   |                   |
| Installation Method                 | Floor-standing installation. Reserve space for heat dissipation & maintenance. Suitable for outdoor charging stations, commercial complexes and other scenarios              |                   |                   |                   |
| After-sales Service                 | Platform docking support; 24-hour 400 hot-line customer service                                                                                                              |                   |                   |                   |
| Warranty                            | 2-year warranty for complete unit; 1-year warranty for vulnerable components (charging cables, display screen)                                                               |                   |                   |                   |

# Android System AC Chargers

Multiple models available



### Wall-mounted AC Chargers



| Model | ZAU207T-CS<br>ZAU311T-CS<br>ZAU322T-CS | ZAU207C-CS<br>ZAU311C-CS<br>ZAU322C-CS | ZAU203C-CS<br>ZAU207C-CS |
|-------|----------------------------------------|----------------------------------------|--------------------------|
|-------|----------------------------------------|----------------------------------------|--------------------------|

#### Product Information

|                                       |                                                                                                                                                                              |  |                     |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------|
| Charging mode                         | Smart charger                                                                                                                                                                |  |                     |
| Input/output power rating and current | 7kW/32A; 11kW/16A; 22kW/32A                                                                                                                                                  |  | 3.5kW/16A; 7kW/32A  |
| Input/output voltage                  | 200-240V, 50Hz/60Hz; 380-400V, 50Hz/60Hz                                                                                                                                     |  | 200-240V, 50Hz/60Hz |
| Network type                          | TT; TN                                                                                                                                                                       |  |                     |
| Connector type                        | Type 2 plug                                                                                                                                                                  |  |                     |
| Protection                            | Leakage Protection; Overcurrent Protection; Undervoltage/Overvoltage Protection; Lightning Protection; Waterproof Protection; Overheat Protection; CP Malfunction Protection |  |                     |

#### General Characteristics

|                             |                       |                   |                   |
|-----------------------------|-----------------------|-------------------|-------------------|
| IP and IK rating            | IP 65                 |                   |                   |
| Operating altitude          | 6562 feet(2000m)      |                   |                   |
| Operating temperature range | -30°C to +50°C        |                   |                   |
| Storage temperature range   | -25°C to +70°C        |                   |                   |
| Mounting                    | Wall or on a pedestal |                   |                   |
| Dimensions (H×W×D)          | 405 × 220 × 95 mm     | 405 × 220 × 95 mm | 280 × 170 × 83 mm |

#### User Interface

|                         |                                              |                 |                   |
|-------------------------|----------------------------------------------|-----------------|-------------------|
| Status indication       | TFT<br>(7 inch TFT 1024*600 2-inch LCD)      | LCD(4-inch LCD) | LCD( 2-inch LCD ) |
| User interface          | EasyCharging APP                             |                 |                   |
| Connectivity            | Bluetooth/Wi-Fi, Ethernet/4G/RS485(Optional) |                 |                   |
| Communication protocols | MQTT/OCPP1.6J                                |                 |                   |
| User authentication     | APP, RFID card                               |                 |                   |

#### Software Update

|  |                            |  |  |
|--|----------------------------|--|--|
|  | OTA updates via web portal |  |  |
|--|----------------------------|--|--|

#### Certification and Standards

|                       |                                                               |  |  |
|-----------------------|---------------------------------------------------------------|--|--|
| Safety and compliance | EN IEC 61851-1:2019; BS EN IEC 61851-1:2019; IEC 61851-1:2017 |  |  |
| Certification         | CE                                                            |  |  |
| Warranty              | 24 months, warranty extension possible                        |  |  |

## Portable AC Chargers



**Model**  
ZBAU322E-CS; ZBAU311E-CS  
ZBAU207E-CS; ZBAU203E-CS

### Product Information

|                                       |                                                                                                                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Charging mode                         | Smart charger                                                                                                                                                                |
| Input/output power rating and current | 3.5kW/16A, 7kW/32A, 11kW/16A; 22kW/32A                                                                                                                                       |
| Input/output voltage                  | 220-240V, 50Hz/60Hz; 280-400V, 50Hz/60Hz                                                                                                                                     |
| Network type                          | TT; TN                                                                                                                                                                       |
| Connector type                        | Type 2 plug                                                                                                                                                                  |
| Protection                            | Leakage Protection; Overcurrent Protection; Undervoltage/Overvoltage Protection; Lightning Protection; Waterproof Protection; Overheat Protection; CP Malfunction Protection |

### General Characteristics

|                             |                                        |
|-----------------------------|----------------------------------------|
| IP and IK rating            | IP 65                                  |
| Operating altitude          | 6562 feet(2000m)                       |
| Operating temperature range | -30°C to +50°C                         |
| Storage temperature range   | -25°C to +70°C                         |
| Mounting                    | Free installation                      |
| Dimensions (H×W×D)          | 210 × 90 × 78 mm      210 × 95 × 80 mm |

### User Interface

|                     |                  |
|---------------------|------------------|
| Status indication   | LED              |
| User interface      | EasyCharging APP |
| Connectivity        | Bluetooth, Wi-Fi |
| User authentication | APP              |

**Software Update**      OTA updates via web portal

### Certification and Standards

|                       |                                                                  |
|-----------------------|------------------------------------------------------------------|
| Safety and compliance | EN IEC 61851-21-2:2021; EN 62752:2016+A1:2020; EN IEC 62311:2020 |
| Certification         | CE                                                               |
| Warranty              | 24 months, warranty extension possible                           |

## Portable AC Chargers



**Model**  
ZBAU207E-CS; ZBAU203E-CS

### Product Information

|                                       |                                                                                                                                                                              |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Charging mode                         | Smart charger                                                                                                                                                                |
| Input/output power rating and current | 3.5kW/16A, 7kW/32A;                                                                                                                                                          |
| Input/output voltage                  | 220-240V, 50Hz/60Hz                                                                                                                                                          |
| Network type                          | TT; TN                                                                                                                                                                       |
| Connector type                        | Type 2 plug                                                                                                                                                                  |
| Protection                            | Leakage Protection; Overcurrent Protection; Undervoltage/Overvoltage Protection; Lightning Protection; Waterproof Protection; Overheat Protection; CP Malfunction Protection |

### General Characteristics

|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| IP and IK rating            | IP 65                                                            |
| Operating altitude          | 6562 feet(2000m)                                                 |
| Operating temperature range | -30°C to +50°C                                                   |
| Storage temperature range   | -25°C to +70°C                                                   |
| Mounting                    | Portable                                                         |
| Dimensions (H×W×D)          | 211 × 81.5 × 55 mm      211 × 81.5 × 55 mm      206 × 78 × 59 mm |

### User Interface

|                     |                  |     |                       |
|---------------------|------------------|-----|-----------------------|
| Status indication   | LED              | LED | LED/LCD( 2-inch LCD ) |
| User interface      | EasyCharging APP |     |                       |
| Connectivity        | Bluetooth, Wi-Fi |     |                       |
| User authentication | APP              |     |                       |

**Software Update**      OTA updates via web portal

### Certification and Standards

|                       |                                                                                        |
|-----------------------|----------------------------------------------------------------------------------------|
| Safety and compliance | EN IEC 62752:2024; EN IEC 61851-21-2:2021; EN IEC 61000-6-2/-3:2021; EN 61000-6-1-2007 |
| Certification         | CE                                                                                     |
| Warranty              | 24 months, warranty extension possible                                                 |

# Single phase Smart Meter Device

TW-50-1-EU

## Anti-Islanding Protection

When paired with EW microinverters, it enables a fast-response anti-islanding protection function.

### EMS

Equipped with EMS functionality

### Protocol

Supports HTTP & MQTTS protocols

### APP

APP-compatible for end-user control

### DIN-rail

DIN-rail mountable



### Model description

#### Model:

TW-50-1-EU

#### Configuration instructions:

AC90-260V 50/60 HZ

Maximum monitoring current: 50A

Maximum monitored total power: 11.5 KW

#### Remarks:

Ready for immediate use with Wi-Fi connectivity. It is suitable for basic electrical monitoring in small-scale applications such as communities, factories, and homes, and can also be integrated into larger systematic development projects.



### Main functions

|   |                       |                                                                                                                           |
|---|-----------------------|---------------------------------------------------------------------------------------------------------------------------|
| 1 | Network Connectivity  | Connects via Wi-Fi to transmit data to the server. Mobile devices can access information through the WeChat Mini Program. |
| 2 | Voltage Measurement   | Measures real-time voltage of the single-phase circuit once powered on.                                                   |
| 3 | Current Measurement   | Measures real-time current status of the single-phase line using a current transformer.                                   |
| 4 | Alarm Function        | Monitors the internal temperature of the product.                                                                         |
| 5 | Max. Control Capacity | Supports control for up to 8 Micro-Inverters or circuits.                                                                 |

### System parameters

|    |                               |                                                         |
|----|-------------------------------|---------------------------------------------------------|
| 1  | The rated voltage range       | AC90-260V 50/60HZ                                       |
| 2  | Maximum monitoring current    | 50A                                                     |
| 3  | Maximum monitored total power | 11.5KW                                                  |
| 4  | Temperature collection range  | -20°C~60°C±2°C                                          |
| 5  | Communication mode            | WiFi 2.4G, in compliance with the IEEE 802.11B protocol |
| 6  | Voltmeters accuracy           | ±1%                                                     |
| 7  | Ammeters accuracy             | ±1% (3-50 A) ±2% (1-3 A)                                |
| 8  | Operating ambient temperature | -10°C ~ 50°C                                            |
| 9  | Storage temperature           | -40°C ~ 65°C                                            |
| 10 | Operative norm                | EMC:EN61326-1; LVD:EN61010-1                            |
| 11 | Attestation                   | CE, RoHS                                                |

# Single phase Smart Meter Device

TA-50-3-EU

## Anti-Islanding Protection

When paired with EW microinverters, it enables a fast-response anti-islanding protection function.

### EMS

Equipped with EMS functionality

### Protocol

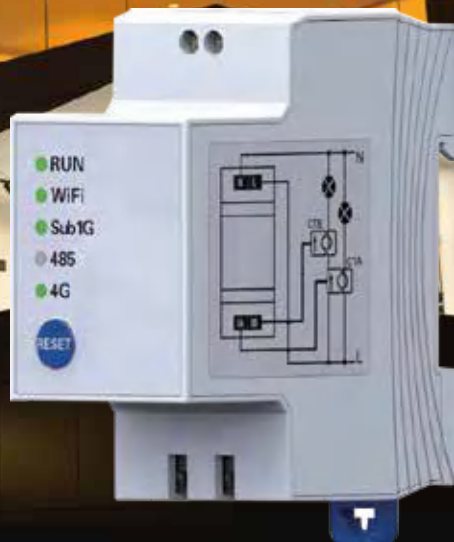
Supports HTTP & MQTTS protocols

### APP

APP-compatible for end-user control

### DIN-rail

DIN-rail mountable



## Technical Data

### Model description

#### Model:

TA-50-3-EU

#### Configuration instructions:

AC100-275V 50/60 HZ  
Maximum monitoring current: 50A  
Maximum monitored total power: 11.5 KW

#### Remarks:

The TA-50-3-EU Smart Meter is an intelligent metering device that provides users with real-time electricity monitoring. It utilizes a Hall-effect current sensor to measure the current in the circuit being tested, combined with direct sampling of the line voltage, to achieve real-time analog-to-digital conversion of circuit power data. The collected data is then aggregated into an MCU (Microcontroller Unit) for computational processing and statistical analysis. This meter is equipped with integrated Wi-Fi, 4G, Bluetooth, RS485, and SUB-1G modules, transmitting real-time monitoring data to the user, enabling them to conduct strategic assessment and management of electricity usage based on the provided information.



### Main functions

|   |                       |                                                                                                                                                               |
|---|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Network Connectivity  | This product connects to the internet via its Wi-Fi/4G modules, transmits device data to the server, and allows access to various information through an APP. |
| 2 | Voltage Measurement   | When powered on, this product can measure the real-time voltage of a single-phase circuit.                                                                    |
| 3 | Current Measurement   | Measures the real-time current status of a single-phase line via a current transformer.                                                                       |
| 4 | Alarm Function        | Features over-current, over-voltage, and under-voltage alarms.                                                                                                |
| 5 | Max. Control Capacity | Supports control for up to 8 Micro-Inverters or circuits.                                                                                                     |

### System parameters

|    |                               |                              |
|----|-------------------------------|------------------------------|
| 1  | Rated voltage range           | AC100-275V 50/60HZ           |
| 2  | Maximum monitoring current    | 50A                          |
| 3  | Maximum monitored total power | 11.5KW                       |
| 4  | Temperature collection range  | -20°C~60°C±2°C               |
| 5  | Communication mode            | WiFi 2.4G, SUB1G, 4G, RS485  |
| 6  | Voltmeters accuracy           | ±1%                          |
| 7  | Ammeters accuracy             | ±1% (3-50 A) ±2% (1-3 A)     |
| 8  | Operating ambient temperature | -20°C ~ 50°C                 |
| 9  | Storage temperature           | -40°C ~ 65°C                 |
| 10 | Operative norm                | EMC:EN61326-1; LVD:EN61010-1 |
| 11 | Protocol                      | MQTTS, HTTP                  |

## SDATALOG-4G-E71



| MODEL                                        | SDatalog-4G-E71                                               |
|----------------------------------------------|---------------------------------------------------------------|
| General Parameters                           |                                                               |
| Dimension (L/W/H)                            | (118*45*27mm)                                                 |
| Weight                                       | 135g                                                          |
| Power Supply                                 | 5V-12V                                                        |
| Operating Current                            | 1A                                                            |
| Power Consumption                            | 1.5W                                                          |
| Operating Temperature                        | -30 C ~ +85 C                                                 |
| Storage Temperature                          | -40 C ~ +105 C                                                |
| Installation Method                          | Aviation Connector                                            |
| Certification                                | CE/RoHS                                                       |
| Warranty                                     | 2-year (Hardware designed for more than 15-year service life) |
| Interface                                    |                                                               |
| UART                                         | 1                                                             |
| Display                                      |                                                               |
| LED                                          | 1                                                             |
| Device Management                            |                                                               |
| Number of Managed Devices                    | 1                                                             |
| Communication Method                         | RS485                                                         |
| Internet Access Mode                         | WiFi/4G                                                       |
| Wireless Parameters(System & Frequency Band) |                                                               |
| WiFi Operating Frequency                     | 2400 ~ 2483.5MHz                                              |
| WiFi Wireless Standard                       | 802.11b/g/n                                                   |
| WiFi Rate                                    | Up to 150 Mbps                                                |
| BLE                                          | BLE4.2 and above, 2.4 GHz                                     |
| WiFi & BLE Communication Distance            | 50M & 10M                                                     |
| 4G Operating Frequency Band                  | LTE-FDD B1/B3/B8/B18/B19/B26/B28                              |
| 4G Maximum Output Power                      | LTE Power Class 3 (0.25W)                                     |
| 4G Internet Rate                             | Max uplink 5Mbps, Max downlink 10Mbps                         |
| GNSS                                         | GPS/GLONASS/Galileo/BDS/QZSS                                  |
| Application Parameters                       |                                                               |
| TTL Baud Rate                                | 9600(default)/115200bps                                       |
| Supported Server                             | SmartServer                                                   |
| Server Communication                         | TLS-TCP & MQTT                                                |
| User Configuration                           | APP Configuration                                             |
| Data Upload Interval                         | 1min & Real-time (on APP open)                                |

## SDATALOG-BWIFI-E51



| MODEL                                        | SDatalog-4G-E71                                               |
|----------------------------------------------|---------------------------------------------------------------|
| General Parameters                           |                                                               |
| Dimension (L/W/H)                            | (68*25*12mm)                                                  |
| Weight                                       | 35g                                                           |
| Power Supply                                 | 5V-12V                                                        |
| Operating Current                            | 1A                                                            |
| Power Consumption                            | 1.5W                                                          |
| Operating Temperature                        | -30 C ~ +85 C                                                 |
| Storage Temperature                          | -40 C ~ +105 C                                                |
| Installation Method                          | USB2.0                                                        |
| Certification                                | CE/RoHS/UK-CA                                                 |
| Warranty                                     | 2-year (Hardware designed for more than 15-year service life) |
| Interface                                    |                                                               |
| UART                                         | 1                                                             |
| Device Management                            |                                                               |
| Number of Managed Devices                    | 1                                                             |
| Communication Method                         | RS485                                                         |
| Internet Access Mode                         | WiFi                                                          |
| Wireless Parameters(System & Frequency Band) |                                                               |
| WiFi Operating Frequency                     | 2400 ~ 2483.5MHz                                              |
| WiFi Wireless Standard                       | 802.11b/g/n                                                   |
| WiFi Rate                                    | Up to 150 Mbps                                                |
| BLE                                          | BLE4.2 and above, 2.4 GHz                                     |
| WiFi & BLE Communication Distance            | 50M & 10M                                                     |
| Application Parameters                       |                                                               |
| TTL Baud Rate                                | 9600(default)/115200bps                                       |
| Supported Server                             | SmartServer                                                   |
| Server Communication                         | TLS-TCP & MQTT                                                |
| User Configuration                           | APP Configuration                                             |
| Data Upload Interval                         | 1min & Real-time (on APP open)                                |

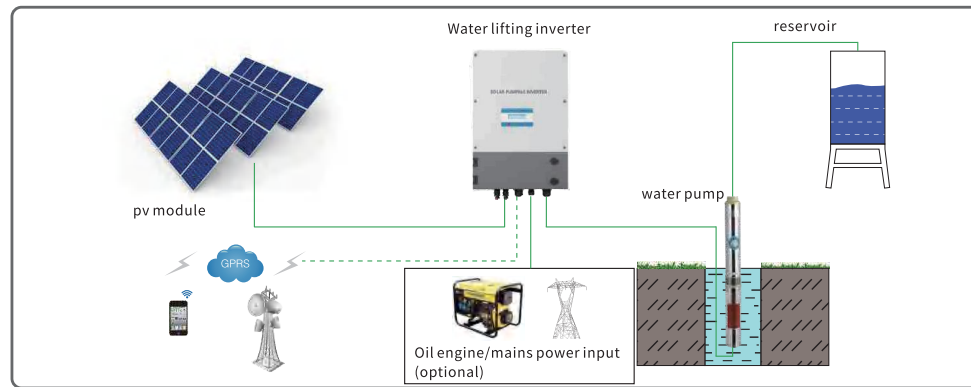


# SPRING550-75000

## Single phase/three-phase water lifting inverter

- Supports mains/oil engine input(optional),with strong environmental adaptability.
- Exquisite structural design,convenient transportation, installation,and use.
- Complete protection and control functions to prevent dry pumping and overflow.
- Rich communication interfaces,RS485/CAN/GPRS optional.
- Advanced MPPT optimization design,fast response,highreliability
- Fully automatic intelligent operation,super strong load capacity,safe and stable.
- IP65 protection level(some models require an outdoor cabinet).
- LCD screen design, rich display content,and storage of operational data for up to 8 years.

### System diagram



#### Selection instructions:

- ①Product series
- ②Rated output power
- ③SL - Output 220V/single-phase; None - Three phase
- ④L-output 220V/three-phase: none - output 380V/three-phase
- ⑤A - Support communication input; None - does not support communication input

The parameters listed on this page are all for models that support input of mains/oil engines (- A). Models without - A do not include AC input parameters, and all other parameter items are the same.

## Technical Data

| Technical Parameter | SPRING 550-SLA | SPRING 750-SLA | SPRING 1100-SLA | SPRING 1500-SLA | SPRING 2200-SLA |
|---------------------|----------------|----------------|-----------------|-----------------|-----------------|
|---------------------|----------------|----------------|-----------------|-----------------|-----------------|

#### Photovoltaic input

|                               |           |           |           |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| MPPT channels                 | 1         | 1         | 1         | 1         | 1         |
| Maximum allowed string count  | 1         | 1         | 1         | 1         | 1         |
| Starting voltage (Vdc)        | 80        | 80        | 80        | 80        | 80        |
| Maximum input current (A)     | 9         | 9         | 9         | 11        | 11        |
| Maximum input voltage (Vdc)   | 450       | 450       | 450       | 500       | 500       |
| Recommended MPP voltage (Vdc) | 100 ~ 360 | 100 ~ 360 | 150 ~ 360 | 200 ~ 400 | 270 ~ 400 |

#### AC input (single-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Input voltage range (Vac)  | 220 ± 15% | 220 ± 15% | 220 ± 15% | 220 ± 15% | 220 ± 15% |
| Input frequency range (Hz) | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 |

#### AC output (single-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Rated output power (W)     | 550       | 750       | 1100      | 1500      | 2200      |
| Rated voltage (Vac)        | 220       | 220       | 220       | 220       | 220       |
| Output voltage range (Vac) | 0 ~ 240   | 0 ~ 240   | 0 ~ 240   | 0 ~ 240   | 0 ~ 240   |
| Output frequency (Hz)      | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 |
| Maximum output current (A) | 5         | 6.3       | 8.6       | 10        | 14        |

#### Basic parameters

|                                        |                                      |                                      |                                      |                                      |                                      |
|----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| display form                           | LCD                                  | LCD                                  | LCD                                  | LCD                                  | LCD                                  |
| communication interface                | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       |
| protection grade                       | IP65                                 | IP65                                 | IP65                                 | IP65                                 | IP65                                 |
| Working altitude (m)                   | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) |
| Cooling method                         | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      |
| Working temperature range (°C)         | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            |
| Dimensions (Depth * Width * Height mm) | 418*288*152                          | 418*288*152                          | 418*288*152                          | 453*288*152                          | 453*288*152                          |
| Weight (kg)                            | 7                                    | 7                                    | 7                                    | 8.5                                  | 8.5                                  |

<6000 (>3000 needs to be downgraded)

| Technical Parameter | SPRING 550-LA | SPRING 750-LA | SPRING 1100-LA | SPRING 1500-LA | SPRING 2200-LA |
|---------------------|---------------|---------------|----------------|----------------|----------------|
|---------------------|---------------|---------------|----------------|----------------|----------------|

#### Photovoltaic input

|                               |           |           |           |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| MPPT channels                 | 1         | 1         | 1         | 1         | 1         |
| Maximum allowed string count  | 1         | 1         | 1         | 1         | 1         |
| Starting voltage (Vdc)        | 80        | 80        | 80        | 80        | 80        |
| Maximum input current (A)     | 9         | 9         | 9         | 11        | 11        |
| Maximum input voltage (Vdc)   | 450       | 450       | 450       | 450       | 450       |
| Recommended MPP voltage (Vdc) | 100 ~ 360 | 100 ~ 360 | 150 ~ 360 | 200 ~ 360 | 200 ~ 360 |

#### AC input (single-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Input voltage range (Vac)  | 220 ± 15% | 220 ± 15% | 220 ± 15% | 220 ± 15% | 220 ± 15% |
| Input frequency range (Hz) | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 |

#### AC output (three-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Rated output power (W)     | 550       | 750       | 1100      | 1500      | 2200      |
| Rated voltage (Vac)        | 220       | 220       | 220       | 220       | 220       |
| Output voltage range (Vac) | 0 ~ 240   | 0 ~ 240   | 0 ~ 240   | 0 ~ 240   | 0 ~ 240   |
| Output frequency (Hz)      | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 |
| Maximum output current (A) | 4         | 5         | 6         | 7         | 11        |

#### Basic parameters

|                                        |                                      |                                      |                                      |                                      |                                      |
|----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| display form                           | LCD                                  | LCD                                  | LCD                                  | LCD                                  | LCD                                  |
| communication interface                | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       |
| protection grade                       | IP65                                 | IP65                                 | IP65                                 | IP65                                 | IP65                                 |
| Working altitude (m)                   | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) |
| Cooling method                         | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      |
| Working temperature range (°C)         | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            |
| Dimensions (Depth * Width * Height mm) | 453*288*152                          | 453*288*152                          | 453*288*152                          | 453*288*152                          | 453*288*152                          |
| Weight (kg)                            | 8.5                                  | 8.5                                  | 8.5                                  | 8.5                                  | 8.5                                  |

## Technical Parameter SPRING 3000-A SPRING 4000-A SPRING 5500-A SPRING 7500-A SPRING 9200-A

### Photovoltaic input

|                               |           |           |           |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| MPPT channels                 | 1         | 1         | 1         | 1         | 1         |
| Maximum allowed string count  | 2         | 2         | 2         | 3         | 3         |
| Starting voltage (Vdc)        | 250       | 250       | 250       | 250       | 250       |
| Maximum input current (A)     | 9         | 11        | 12        | 19        | 22        |
| Maximum input voltage (Vdc)   | 900       | 900       | 900       | 900       | 900       |
| Recommended MPP voltage (Vdc) | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 |

### AC output (three-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Input voltage range (Vac)  | 380 ± 15% | 380 ± 15% | 380 ± 15% | 380 ± 15% | 380 ± 15% |
| Input frequency range (Hz) | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 |

### AC output (three-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Rated output power (W)     | 3000      | 4000      | 5500      | 7500      | 9200      |
| Rated voltage (Vac)        | 380       | 380       | 380       | 380       | 380       |
| Output voltage range (Vac) | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   |
| Output frequency (Hz)      | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 |
| Maximum output current (A) | 8         | 10        | 13        | 18        | 21        |

### Basic parameters

|                                        |                                      |                                      |                                      |                                      |                                      |
|----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| display form                           | LCD                                  | LCD                                  | LCD                                  | LCD                                  | LCD                                  |
| communication interface                | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       |
| protection grade                       | IP65                                 | IP65                                 | IP65                                 | IP65                                 | IP65                                 |
| Working altitude (m)                   | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) |
| Cooling method                         | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      |
| Working temperature range (°C)         | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            |
| Dimensions (Depth * Width * Height mm) | 478*325*155                          | 478*325*155                          | 478*325*155                          | 528*346*166                          | 528*346*166                          |
| Weight (kg)                            | 12                                   | 12                                   | 12                                   | 14                                   | 14                                   |

## Technical Parameter SPRING 11K-A SPRING 13K-A SPRING 15K-A SPRING 18K5-A SPRING 22K-A

### Photovoltaic input

|                               |           |           |           |           |           |
|-------------------------------|-----------|-----------|-----------|-----------|-----------|
| MPPT channels                 | 1         | 1         | 1         | 1         | 1         |
| Maximum allowed string count  | 3         | 6         | 6         | 6         | 6         |
| Starting voltage (Vdc)        | 250       | 250       | 250       | 250       | 250       |
| Maximum input current (A)     | 24        | 31        | 32        | 38        | 46        |
| Maximum input voltage (Vdc)   | 900       | 900       | 900       | 900       | 900       |
| Recommended MPP voltage (Vdc) | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 |

### AC output (three-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Input voltage range (Vac)  | 380 ± 15% | 380 ± 15% | 380 ± 15% | 380 ± 15% | 380 ± 15% |
| Input frequency range (Hz) | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 |

### AC output (three-phase)

|                            |           |           |           |           |           |
|----------------------------|-----------|-----------|-----------|-----------|-----------|
| Rated output power (W)     | 11000     | 13000     | 15000     | 18500     | 22000     |
| Rated voltage (Vac)        | 380       | 380       | 380       | 380       | 380       |
| Output voltage range (Vac) | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   |
| Output frequency (Hz)      | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 |
| Maximum output current (A) | 24        | 28        | 30        | 39        | 45        |

### Basic parameters

|                                        |                                      |                                      |                                      |                                      |                                      |
|----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| display form                           | LCD                                  | LCD                                  | LCD                                  | LCD                                  | LCD                                  |
| communication interface                | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       |
| protection grade                       | IP65                                 | IP65                                 | IP65                                 | IP65                                 | IP65                                 |
| Working altitude (m)                   | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) |
| Cooling method                         | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      | natural cooling                      |
| Working temperature range (°C)         | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            |
| Dimensions (Depth * Width * Height mm) | 528*346*166                          | 583*405*190                          | 583*405*190                          | 583*405*190                          | 583*405*190                          |
| Weight (kg)                            | 14                                   | 22.5                                 | 22.5                                 | 22.5                                 | 22.5                                 |

## Technical Parameter SPRING 26K-A SPRING 30K-A SPRING 37K-A

### Photovoltaic input

|                               |           |           |           |
|-------------------------------|-----------|-----------|-----------|
| MPPT channels                 | 1         | 1         | 1         |
| Maximum allowed string count  | 8         | 8         | 10        |
| Starting voltage (Vdc)        | 250       | 250       | 250       |
| Maximum input current (A)     | 53        | 64        | 78        |
| Maximum input voltage (Vdc)   | 900       | 900       | 900       |
| Recommended MPP voltage (Vdc) | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 |

### AC input (single-phase)

|                            |           |           |           |
|----------------------------|-----------|-----------|-----------|
| Input voltage range (Vac)  | 380 ± 15% | 380 ± 15% | 380 ± 15% |
| Input frequency range (Hz) | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 |

### AC output (single-phase)

|                            |           |           |           |
|----------------------------|-----------|-----------|-----------|
| Rated output power (W)     | 26000     | 30000     | 37000     |
| Rated voltage (Vac)        | 380       | 380       | 380       |
| Output voltage range (Vac) | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   |
| Output frequency (Hz)      | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 |
| Maximum output current (A) | 54        | 60        | 75        |

### Basic parameters

|                                        |                                      |                                      |                                      |
|----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| display form                           | LCD                                  | LCD                                  | LCD                                  |
| communication interface                | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       |
| protection grade                       | IP65                                 | IP65                                 | IP20                                 |
| Working altitude (m)                   | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) |
| Cooling method                         | natural cooling                      | natural cooling                      | natural cooling                      |
| Working temperature range (°C)         | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            |
| Dimensions (Depth * Width * Height mm) | 585*476*218                          | 585*476*218                          | 467*260*220                          |
| Weight (kg)                            | 21.5                                 | 23.5                                 | 18.5                                 |

## Technical Parameter SPRING 45K-A SPRING55K-A SPRING 75K-A

### Photovoltaic input

|                               |           |           |           |
|-------------------------------|-----------|-----------|-----------|
| MPPT channels                 | 1         | 1         | 1         |
| Maximum allowed string count  | 12        | 16        | 20        |
| Starting voltage (Vdc)        | 250       | 250       | 250       |
| Maximum input current (A)     | 108       | 114       | 160       |
| Maximum input voltage (Vdc)   | 900       | 900       | 900       |
| Recommended MPP voltage (Vdc) | 500 ~ 680 | 500 ~ 680 | 500 ~ 680 |

### AC input (single-phase)

|                            |           |           |           |
|----------------------------|-----------|-----------|-----------|
| Input voltage range (Vac)  | 380 ± 15% | 380 ± 15% | 380 ± 15% |
| Input frequency range (Hz) | 50/60 ± 5 | 50/60 ± 5 | 50/60 ± 5 |

### AC output (three-phase)

|                            |           |           |           |
|----------------------------|-----------|-----------|-----------|
| Rated output power (W)     | 45000     | 55000     | 75000     |
| Rated voltage (Vac)        | 380       | 380       | 380       |
| Output voltage range (Vac) | 0 ~ 440   | 0 ~ 440   | 0 ~ 440   |
| Output frequency (Hz)      | 0 ~ 50/60 | 0 ~ 50/60 | 0 ~ 50/60 |
| Maximum output current (A) | 91        | 112       | 162       |

### Basic parameters

|                                        |                                      |                                      |                                      |
|----------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| display form                           | LCD                                  | LCD                                  | LCD                                  |
| communication interface                | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       | RS485/CAN/GPRS                       |
| protection grade                       | IP20                                 | IP20                                 | IP20                                 |
| Working altitude (m)                   | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) | <6000 (>3000 needs to be downgraded) |
| Cooling method                         | natural cooling                      | natural cooling                      | natural cooling                      |
| Working temperature range (°C)         | -25 ~ +60                            | -25 ~ +60                            | -25 ~ +60                            |
| Dimensions (Depth * Width * Height mm) | 546*347*242                          | 546*347*242                          | 546*347*242                          |
| Weight (kg)                            | 28                                   | 28                                   | 28                                   |

The Spring 37K water lifting inverter can be optionally equipped with JFYW1-A outdoor cabinet. The outdoor cabinet parameters are as follows: protection level | P54, weight 49Kg, size (length \* width \* height) 650 \* 320 \* 790mm  
The Spring 45K-75K water lifting inverter can be equipped with JFYW2-A outdoor cabinet, and the parameters of the outdoor cabinet are as follows: The protection level is IP54, the weight is 53kg, and the dimensions (length \* width \* height) are 750 \* 320 \* 940mm