

Single Phase Hybrid Solar Inverter

GHS Series 3600W - 6200W



Key Features

- **Hybrid Functionality**

It is designed for both on-grid and off-grid applications. It allows users to harness solar energy while still having access to the grid, providing flexibility and reliability in energy supply. In off-grid mode, it can efficiently manage battery storage, ensuring that end users have power even during outages.

- **Programmable Settings**

Users can customize various settings, such as charging modes, output voltage, and grid connection preferences, to suit their specific energy requirements and optimize performance.

- **Built-in 120A MPPT Controller**

The MPPT technology ensures that the

inverter extracts the maximum possible power from the solar panels, even in varying weather conditions.

- **Battery-Free Operation**

It can operate without a battery, allowing users to directly utilize solar energy or grid power.

- **Dual AC Output**

With dual AC output ports, enabling users to power multiple devices or circuits simultaneously.

- **One-Key Restoration to Factory Default Setting**

Allow users to reset the inverter to its factory default settings with ease. This is particularly useful for troubleshooting or when making significant changes to the system configuration.

Specification 3600W-6200W

| Model | GHS3.6K | GHS4.2K | GHS6.2K |
|--|------------------------------------|---------|---------|
| PHASE | single phase in / single phase out | | |
| Max. PV INPUT POWER | 6200W | 6200W | 6500W |
| Rated Output Power | 3600W | 4200W | 6200W |
| Dimension, D x W x H (mm) | 420x350x110 | | |
| Net weight (Kg) | 8 | 8 | 9 |
| GRID-TIE OPERATION | | | |
| PV INPUT (DC) | | | |
| Nominal DC Voltage/Max. DC Voltage | 360VDC/500VDC | | |
| Start-up Voltage/Initial Feeding Voltage | 60VDC/90VDC | | |
| MPPT Voltage Range | 60VDC~450VDC | | |
| No. of MPP Trackers/Max. Input Current | 1/22A | | |
| GRID OUTPUT (AC) | | | |
| Nominal Output Voltage | 220VAC/230VAC/240VAC | | |
| Output Voltage Range | 195.5 - 253VAC | | |
| Power Factor | >0.99 | | |
| Nominal Output Current | 15.7A | 18.2A | 27.0A |
| EFFICIENCY | | | |
| Maximum Conversion Efficiency (DC/AC) | 98.00% | | |
| MPPT Efficiency | 99.90% | | |
| DUAL OUTPUT | | | |
| Full Load Power | 3600W | 4200W | 6200W |
| Max. Main Load Power | 3600W | 4200W | 6200W |
| Max. Second Load Power (Battery Mode) | 1200W | 1400W | 2067W |
| DC Cut-off Voltage @ Max. Load | 26VDC | 26VDC | 52VDC |
| DC Recover Voltage @ Max. Load | 27VDC | 27VDC | 54VDC |
| OFF-GRID OPERATION | | | |
| AC INPUT | | | |
| AC start-up Voltage / Auto Restart Voltage | 120 - 140VAC/180 VAC | | |
| Acceptable Input Voltage Range | 90 - 280VAC or 170 - 280VAC | | |
| Frequency | 50Hz / 60Hz | | |
| Max. AC Input Current | 30A | 30A | 40A |
| PV INPUT (DC) | | | |
| Nominal DC Voltage/Max. DC Voltage | 360VDC/500VDC | | |
| MPPT Voltage Range | 60VDC~450VDC | | |
| No. of MPP Trackers/Max. Input Current | 1/22A | | |
| BATTERY MODE OUTPUT (AC) | | | |
| Nominal Output Voltage | 220VAC/230VAC/240VAC | | |
| Frequency | 50Hz / 60Hz | | |
| Output Waveform | Pure Sine Wave | | |
| Efficiency (DC to AC) | 94% | | |



| Model | GHS3.6K | GHS4.2K | GHS6.2K |
|--|-----------------------------|---------|---------|
| BATTERY& CHARGER | | | |
| Battery Type | Lead-acid or Lithium-ion | | |
| Nominal DC Voltage | 24VDC | 24VDC | 48VDC |
| Max. Solar Charging Current | 120A | | |
| Max. AC Charging Current | 100A | | |
| Max. Charging Current | 120A | | |
| HYBRID OPERATION | | | |
| PV INPUT (DC) | | | |
| Nominal DC Voltage/Max. DC Voltage | 360VDC/500VDC | | |
| MPPT Voltage Range | 60VDC~450VDC | | |
| No. of MPP Trackers/Max. Input Current | 1/22A | | |
| GRID OUTPUT (AC) | | | |
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| Frequency | 50Hz / 60Hz | | |
| Max. AC Input Current | 30A | 30A | 40A |
| INTERFACE | | | |
| Communication Port | RS232, WiFi, GPRS(optional) | | |
| BMS | RS485 | | |
| ENVIRONMENT | | | |
| Humidity | 0~90% RH (Non-condensing) | | |
| Operating Temperature | 0 to 40 °C | | |
| Altitude | 0-1000 m | | |

Product specifications are subject to change without further notice.