



SP6000 Handy Grid

SP Handy Grid Series

SP6000 Handy Grid with Grid-Tie Design.

Increase photovoltaic capacity up to 7KW to benefit the users.

Features

- High PV input range & 6KW PV capacity
- Feasible for without-battery operation
- Pure sine wave inverter
- Selectable high power charging current
- Compatible with mains or generator power
- Smart battery charger design for battery performance optimization
- Built-in MPPT solar charge controller
- Overload and short circuit protection
- Grid-Tie function
- Cold start function
- Wi-Fi function
- Detachable LCD
- Parallel Operation of up to 9pcs



Grid-tie



Detachable LCD Display



BMS



Wi-Fi



Parallel Operation

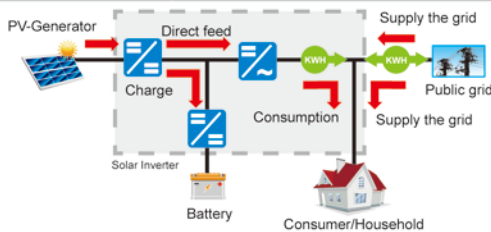
Specifications

| | |
|---|--|
| MODEL | SP6000 Handy Grid |
| Rated Power | 6000VA6000W |
| INPUT | |
| Nominal Voltage | 220/230/240 VAC |
| Selectable Voltage Range | 170-280 VAC (For Personal Computers) 90-280 VAC (For Home Appliances) |
| Frequency Range | 50 Hz/ 60 Hz (Auto sensing) |
| Maximum AC Input Current | 40A |
| AC OUTPUT | |
| AC Voltage Regulation (Batt. Mode) | 230VAC ± 5% |
| Surge Power | 12000VA |
| Transfer Time | 10 ms (For Personal Computers) 20 ms (For Home Appliances) |
| Waveform | Pure sine wave |
| GRID OUTPUT | |
| Nominal Voltage | 220/230/240 VAC |
| Voltage Range | 184-264.5 VAC or 195.5-253 VAC |
| Nominal Current | 21.7A |
| Power Factor Range | 0.9 lag- 0.9 lead, Default 0.99 |
| EFFICIENCY | |
| DC to AC | 95% |
| Battery to AC | 93% |
| BATTERY | |
| Battery Voltage | 48 VDC |
| Floating Charge Voltage | 54 VDC |
| Overcharge Protection | 66 VDC |
| SOLAR CHARGER & AC CHARGER | |
| Maximum PV Array Power | 7000W |
| Maximum PV Array Open Circuit Voltage | 500Vdc |
| Start-up Voltage / Initial Feeding Voltage | 120Vdc / 150Vdc |
| PV Array MPPT Voltage Range | 120~430Vdc |
| Maximum PV Input Current | 27A |
| Maximum PV Input Short Circuit Current | 30A |
| Maximum Solar Charging Current | 120A |
| Maximum AC Charging Current | 120A |
| Maximum Charging Current | 120A |
| PHYSICAL | |
| Dimension (D×W×H) | 142×297×455 mm |
| Net Weight | 12kgs |
| Communication Port | RS232/USB/Dry-contact/Wi-Fi |
| OPERATING ENVIRONMENT | |
| Humidity | 5% to 95% Relative Humidity (Non-condensing) |
| Operating Temperature | 0°C ~ 50°C |
| Storage Temperature | -10°C ~ 60°C |

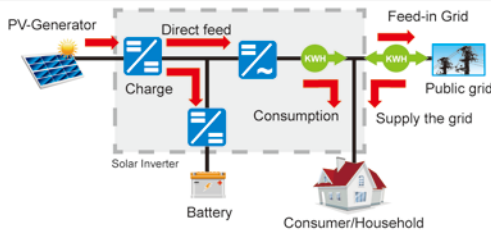
Specifications are subject to change without notice.

Operation Diagram:

Operation with battery



Operation with battery (Grid-Tie)



Operation without battery

