

SP6000 Handy Grid III

SP Handy Grid III Series

Hybrid type with Grid-Tie function & HMI 4.3" touch screen design

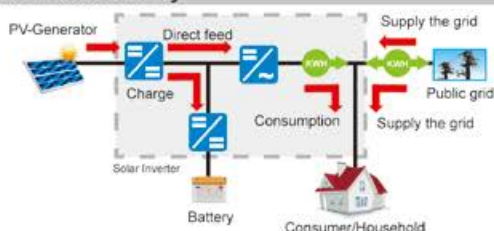


Features

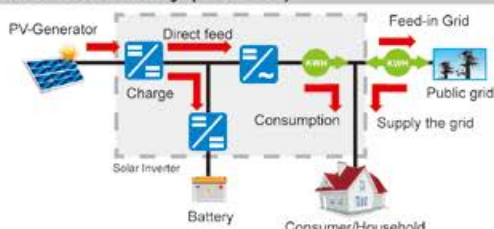
- High PV input range & 6KW PV capacity
- Feasible for without-battery operation
- Pure sine wave inverter
- Smart battery charger design for optimized battery performance
- Built-in dual MPPT solar charge controllers
- Overload and short circuit protection
- Grid-Tie function
- 4.3" colored touch screen with user-friendly HMI operation
- BMS & Wi-Fi function
- Parallel operation for 9 units

Operation Diagram:

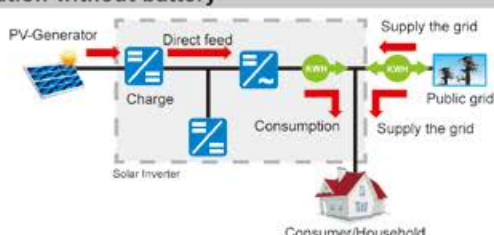
Operation with battery



Operation with battery (Grid-Tie)



Operation without battery



Specifications

MODEL	SP6000 Handy Grid III
Rated Power	6200VA/6200W
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)
AC OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC $\pm$ 5%
Surge Power	10000VA
Peak Efficiency	93%
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	30.4A
Power Factor Range	0.9 lag- 0.9 lead, Default 0.99
Max. Conversion Efficiency (DC/AC)	96%
BATTERY	
Battery Voltage	48 VDC
Floating Charge Voltage	54 VDC
Overcharge Protection	66 VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Array Power	8000W
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	18A $\times$ 2
Maximum PV Input Current for ISC	30A
Maximum Solar Charging Current	120A
Maximum AC Charging Current	120A
Maximum Charging Current	120A
PHYSICAL	
Dimension (D $\times$ W $\times$ H)	139 $\times$ 295 $\times$ 492mm
Net Weight	14kgs
Communication Port	RS232/USB/Dry-contact/Wi-Fi
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	0°C $\sim$ 50°C
Storage Temperature	-10°C $\sim$ 60°C

Specifications are subject to change without notice.

OPTI-Solar Asia:
Tel: +886-2-2246-7272
Fax: +886-2-2246-7312

OPTI-Solar USA:
Tel: +1-909-869-5700
Fax: +1-909-869-5730

OPTI-Solar Middle East:
Tel: +9714-8819-838
Fax: +9714-8819-938

OPTI-Solar Europe B.V.:
Tel: +31-40-2628050