

SP6000 Handy Grid

SP Handy Grid Series

Dual AC voltage 110/220V.

SP Handy Series with Grid-Tie design is suitable for any type of installation.



Dual AC Rated Voltage 110/220V



Detachable LCD



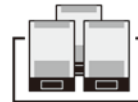
Wi-Fi Function



Grid-tie



Anti-dust Filter Design



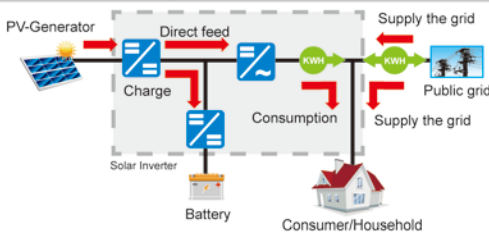
Parallel Operation

Features

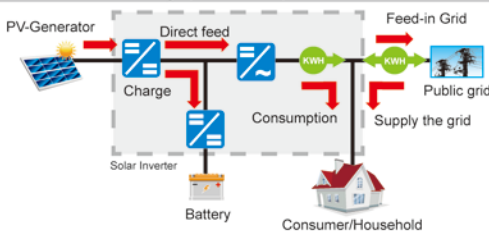
- Dual AC rated voltage 110/220V
- High PV input range & 6KW PV capacity
- Pure sine wave inverter
- Selectable high power charging current
- Compatible with mains or generator power
- Smart battery charger design for battery performance optimization
- Built-in MPPT solar charge controller
- Overload and short circuit protection
- Grid-Tie function
- Cold start function
- Wi-Fi function
- Detachable LCD
- Parallel Operation of up to 9pcs

Operation Diagram:

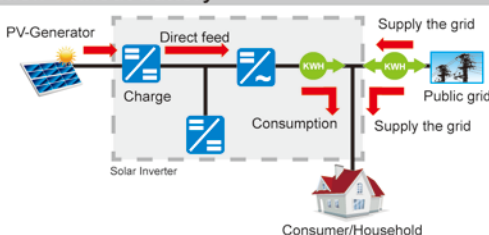
Operation with battery



Operation with battery (Grid-Tie)



Operation without battery



Specifications

MODEL		SP6000 Handy Grid
Rated Power		6000VA/6000W
AC INPUT		
Nominal Voltage	L-L	220 VAC
	L-N	110 VAC
Acceptible Voltage Range	L-L	130-280 VAC
	L-N	65-140 VAC
Maximum Input Current		40A per phase
Frequency Range		50 Hz/ 60 Hz (Auto-sensing)
AC OUTPUT		
AC Voltage Regulation (Batt. Mode)	L-L	220VAC ± 5%
	L-N	110VAC ± 5%
Surge Power		10000VA
Peak Efficiency		88%
Transfer Time	10 ms (For Personal Computers)	
	20 ms (For Home Appliances)	
Waveform		Pure sine wave
GRID OUTPUT (Grid-Tie)		
Acceptible Voltage Range	L-L	183-264VAC
	L-N	91.5-132VAC
Nominal Current		27.3A per phase
Power Factor		> 0.99
Max. Conversion Efficiency (DC/AC)		95%
BATTERY		
Battery Voltage		48 VDC
Floating Charge Voltage		54 VDC
Overcharge Protection		66 VDC
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Power		6000W
Maximum PV Array Open Circuit Voltage		450Vdc
PV Array MPPT Voltage Range		120~450Vdc
Maximum PV Input Current		27A
Maximum Charging Capacity		5000W
Maximum Solar Charging Current		100A
Maximum AC Charging Current		100A
Maximum Charging Current		100A
PHYSICAL		
Dimension (D×W×H)		138.4×365×593.6mm
Net Weight		26kgs
Communication Port		RS232/USB/Dry-contact/Wi-Fi
OPERATING ENVIRONMENT		
Humidity		5% to 95% Relative Humidity (Non-condensing)
Operating Temperature		-10°C ~ 50°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