

SP6000 Handy Grid

SP Handy Grid Series

Dual AC Voltage 110/220V, suitable for use in all areas.

Features

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



Dual AC Rated Voltage 110/220V



Grid-Tie Function



Detachable LCD Display



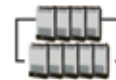
WiFi Function

Communication for Remote panel.



Anti-Dust Filter Design

Increase product reliability in harsh environment, and prevent excessive dust from entering the inside of the inverter that would reduce its lifecycle.

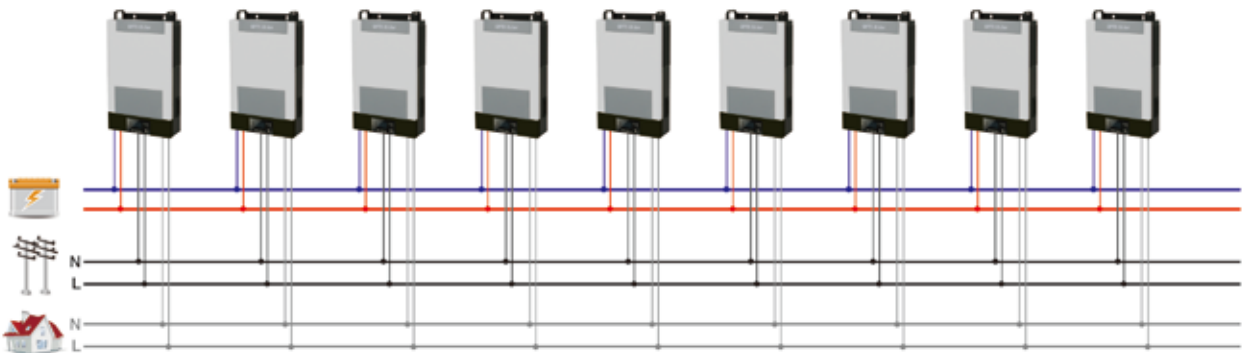


Parallel Operation

Maximum 9 units in parallel

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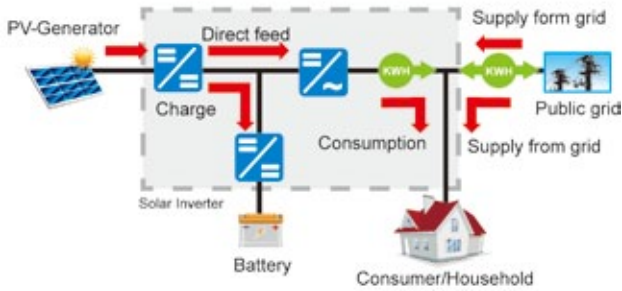


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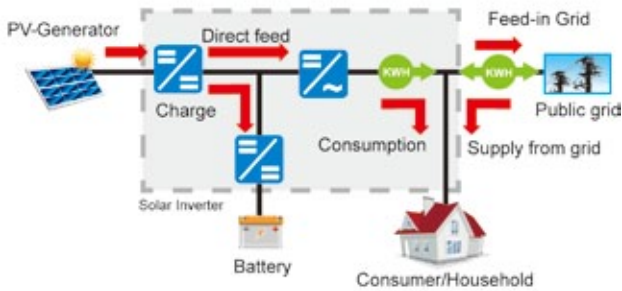
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Operation Diagram:

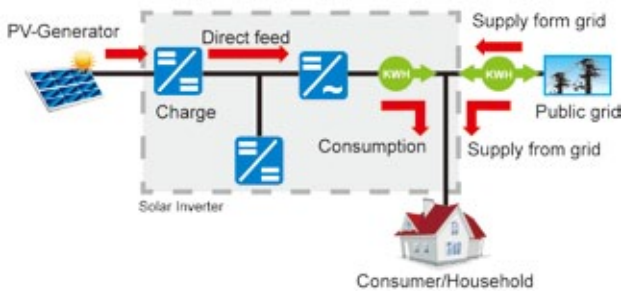
Operation with battery



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
Acceptable 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)		
Acceptable Voltage Range	L-L	91.5-132 VAC
	L-N	183-264VAC
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/WIFI
OPERATING ENVIRONMENT		
Humidity		5% to 95% Relative Humidity (Non-condensing)
Operating Temperature		-10°C ~ 50°C

Specifications are subject to change without notices.