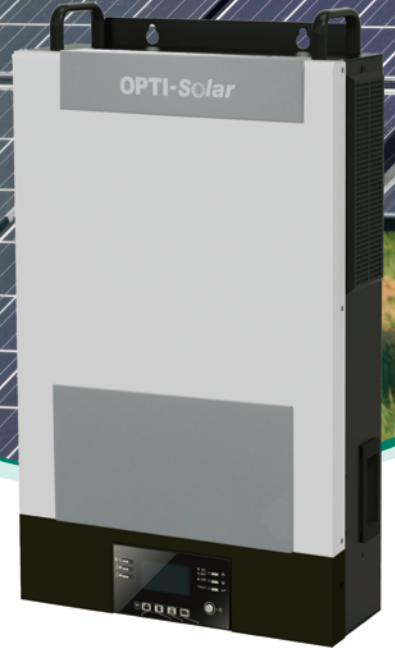
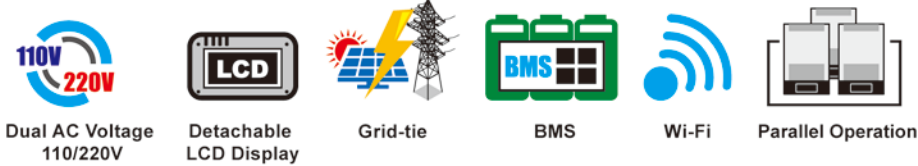


### SP6000 Handy Grid II

# SP Handy Grid II Series

Dual AC voltage 110/220V.

SP6000 Handy Grid II with Grid-Tie design is suitable for any type of application.

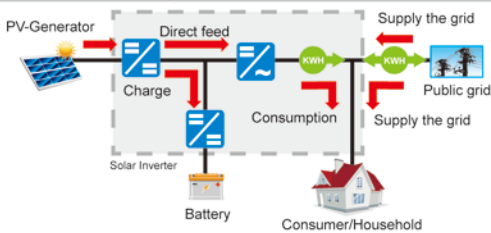


#### Features

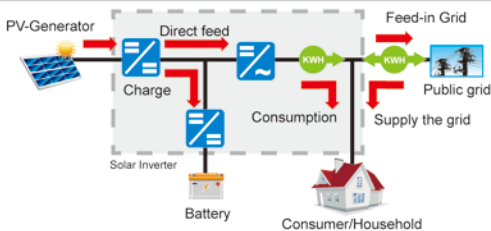
- Dual AC rated voltage 110/220V
- High PV input range & 6KW PV capacity
- Pure sine wave inverter
- Selectable high power charging current
- Compatible with mains or generator power
- Smart battery charger design for battery performance optimization
- Built-in MPPT solar charge controller
- Overload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

#### Operation Diagram:

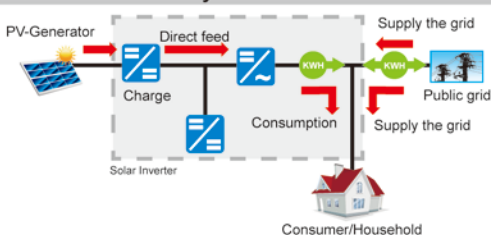
##### Operation with battery



##### Operation with battery (Grid-Tie)



##### Operation without battery



#### Specifications

MODEL	SP6000 Handy Grid II	
Rated Power	6000VA/6000W	
<b>AC INPUT</b>		
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)	
<b>AC OUTPUT</b>		
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	
<b>GRID OUTPUT (Grid-Tie)</b>		
Acceptable 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%	
<b>BATTERY</b>		
Battery Voltage	48 VDC	
Floating Charge Voltage	54 VDC	
Overcharge Protection	66 VDC	
<b>SOLAR CHARGER &amp; AC CHARGER</b>		
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 PV Input Short Circuit Current	30A	
Maximum Charging Capacity	5000W	
Maximum Solar Charging Current	100A	
Maximum AC Charging Current	100A	
Maximum Charging Current	100A	
<b>PHYSICAL</b>		
Dimension (D×W×H)	138.4×365×593.6mm	
Net Weight	26kgs	
Communication Port	RS232/USB/Dry-contact/Wi-Fi	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	-10°C ~ 50°C	

Specifications are subject to change without notice.

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