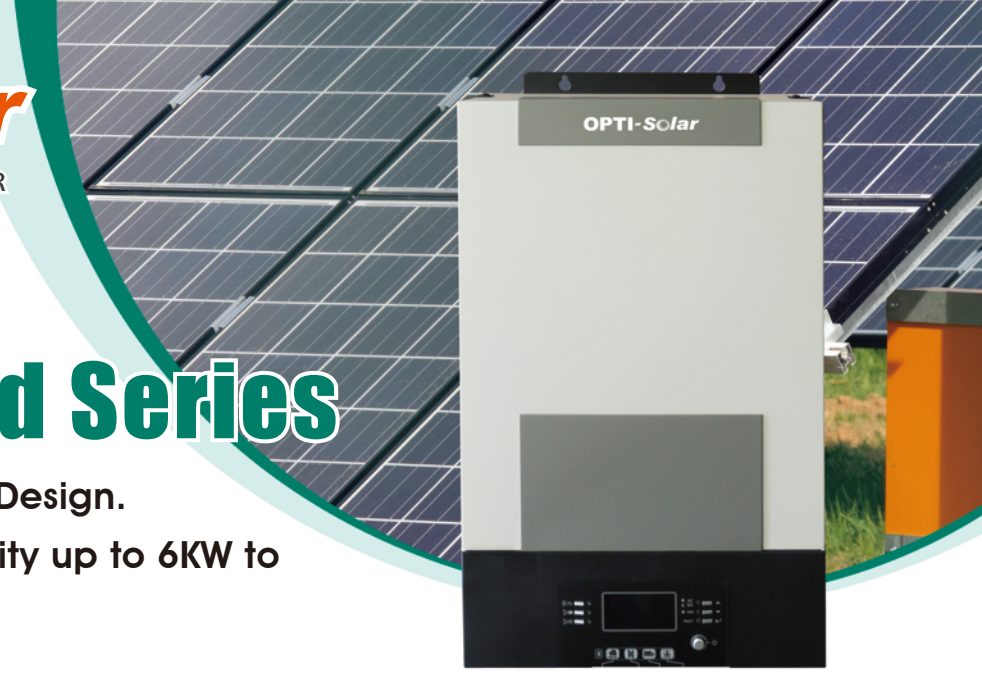
OPTI-Solar
INVERTER POWER

SP6000 Handy Grid

SP Handy Grid Series

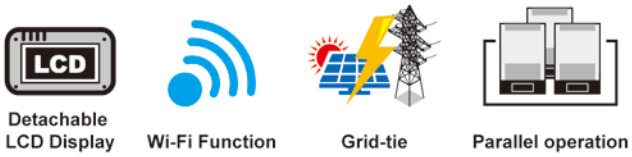


SP Handy Series with Grid-Tie Design.

Increase photovoltaic capacity up to 6KW to benefit the users.

Features

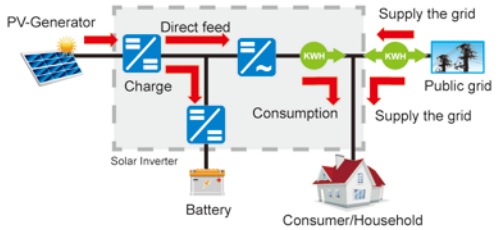
- High PV input range & 6KW PV capacity
- Feasible for without-battery operation
- Pure sine wave inverter
- Selectable high power charging current
- Compatible with mains or generator power
- Smart battery charger design for battery performance optimization
- Built-in MPPT solar charge controller
-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



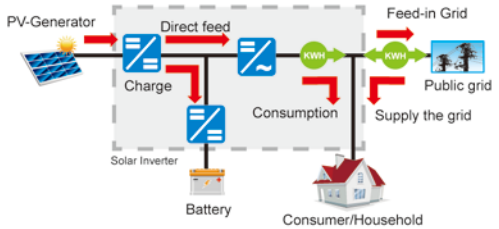
Detachable LCD Display | Wi-Fi Function | Grid-tie | Parallel operation

Operation Diagram:

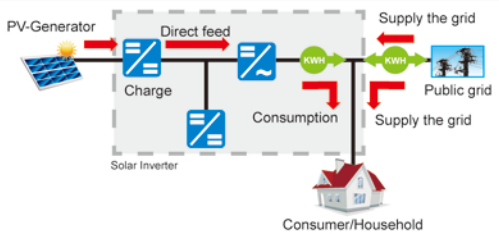
Operation with battery



Operation with battery (Grid-Tie)



Operation without battery



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 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 notices.

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