OPTI-Solar
INVERTER POWER

SP3000 Handy

SP Handy Series



An advanced and easy-to-use Solar inverter with energy exchange functions, and its anti-dust filter design that helps to increase its lifespan.

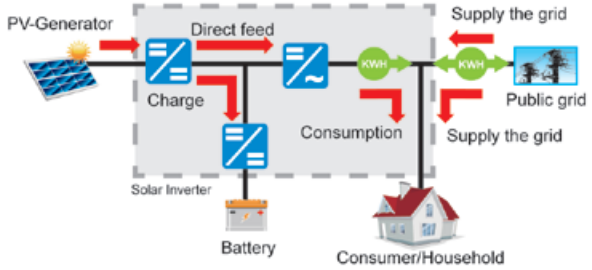
Battery-free operation available and high PV input voltage.

Features

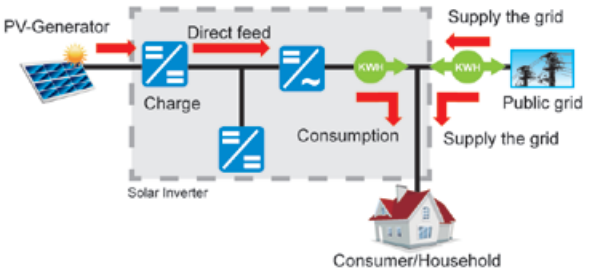
- High PV input range
- Feasible for without-battery operation
- Pure sine wave inverter with PF1
- Selectable high power charging current
- Compatible with mains or generator power
- Built-in MPPT solar charger
- Overload and short circuit protection
- Support Battery Management System (BMS)
- Cold start function
- The Anti-Dust Filter design can increase the lifespan

Operation Diagram:

Operation with battery



Operation without battery



Specifications

MODEL	SP3000 Handy
Rated Power	3000VA/3000W
INPUT	
Voltage	230 VAC
Selectable Voltage Range	170-280 VAC (For Personal Computers)
	90-280 VAC (For Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Surge Power	6000VA
Peak Efficiency	93%
Transfer Time	10 ms (For Personal Computers)
	20 ms (For Home Appliances)
Waveform	Pure sine wave
BATTERY	
Battery Voltage	24 VDC
Floating Charge Voltage	27 VDC
Overcharge Protection	33 VDC
SOLAR CHARGER & AC CHARGER	
Maximum PV Input Power	3000W
Maximum PV Array Open Circuit Voltage	450Vdc
PV Array MPPT Voltage Range	30 ~ 400Vdc
	30 ~ 60Vdc with battery connected only
Maximum Solar Charging Current	100A
Maximum AC Charging Current	80A
Maximum Charging Current	100A
Maximum PV Input Current	13A
PHYSICAL	
Dimension (D × W × H)	110 x 288 x 390mm
Net Weight	7.2kg
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity(Non-condensing)
Operating Temperature	-10°C ~ 55°C
Storage Temperature	-15°C ~ 60°C

Specifications are subject to change without notice.

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