

SP5000 Vitality

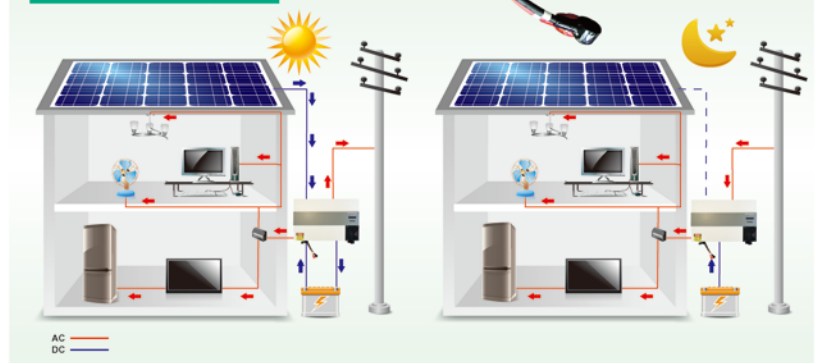
SP Vitality

Features

- On-Grid inverter with energy storage
- 6KW Maximum PV input
- PV direct-supply Function
- Pure sine wave output
- Microprocessor Controlled to Guarantee Stable Charging System
- Maximum Efficiency Up to 96.5%
- Built-In Dual MPPT Solar Chargers
- Maximum Charging 100A
- LCD Display Panel For Comprehensive Information
- Generator Compatible
- Surge Protection
- Six inverters in parallel

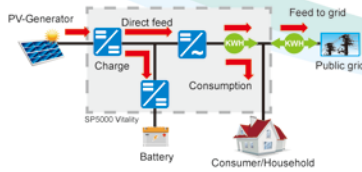


Application diagram

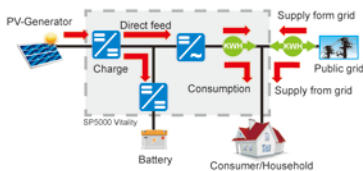


Operation Diagram:

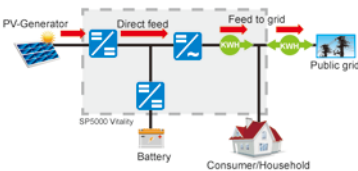
Enough PV Energy Input



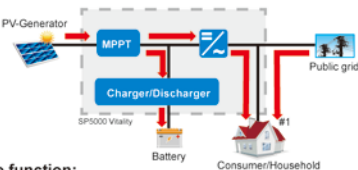
Household's consumption is higher than supply from PV



No consumption from household and the battery is fully charged



Inverter will detect the load consumption



Self-use function:

Inverter will detect the load consumption. To supply the load, it will take power from Solar and take power from public grid simultaneously. (#1: Public grid will be accepted to the load if Solar is insufficient)

Specifications

MODEL	SP5000 Vitality
Rated Power	5000W
INPUT	
Rated Voltage	230 VAC
Voltage Range	190-300 VAC
Frequency Range	50 Hz/60 Hz (Auto sensing)
OUTPUT	
AC Voltage Regulation (Batt. Mode)	230VAC ± 5%
Overload Capacity	60 seconds for 100% ≤ load ≤ 110% 30 seconds for 110% < load ≤ 150% 10 seconds for 150% < load ≤ 200%
Peak Efficiency	96.5%
Transfer Time	20ms
Waveform	Pure sine wave
BATTERY	
Battery Voltage	48 VDC
Voltage Range	40VDC~56VDC
Low Battery Alarm Voltage	42 VDC
Maximum discharge Current	150A
Maximum Utility Charging Current	50 A
SOLAR CHARGER	
Maximum PV Rated Power	6000W
Maximum PV Array Open Circuit Voltage	500VDC
MPPT Operation Voltage Range	150~450VDC
Start-up Voltage	150VDC
Maximum input Current	10A× 2
Maximum Charging Current	100A
Standby Power Consumption	60W
JOINT UTILITY AND SOLAR CHARGING	
Maximum Charging Current	100A
PHYSICAL	
Dimension (D×W×H)	168×580×408mm
Net Weight	24.2kgs
OPERATING ENVIRONMENT	
Humidity	0% to 95%(Non-condensing)
Operating Temperature	0°C - 40°C
Storage Temperature	-20°C - 40°C

Specifications are subject to change without notice.

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