

SP5000 Vitality / SP5000 Vitality-S

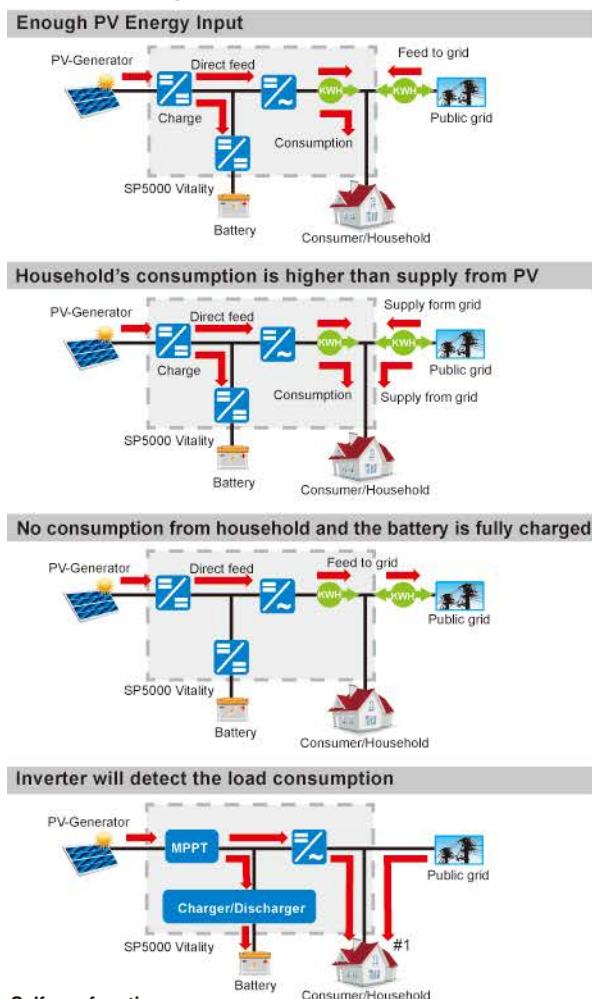
SP Vitality

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 (SP5000 Vitality only)
- Maximum Charging 100A
- LCD Display Panel For Comprehensive Information
- Generator Compatible
- Surge Protection
- Six inverters in parallel (SP5000 Vitality only)



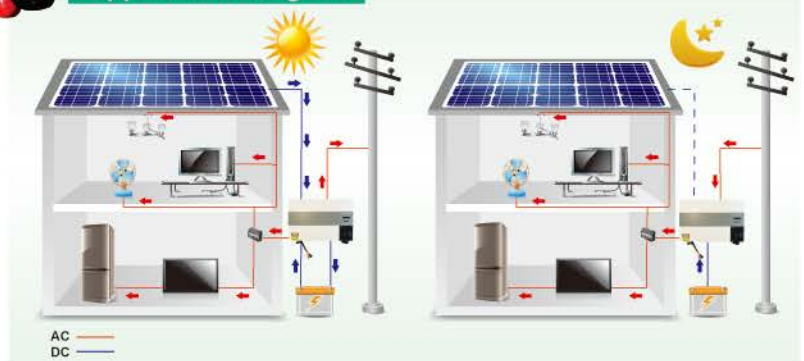
Operation Diagram:



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)

Application diagram



Specifications

MODEL	SP5000 Vitality-S	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 \pm 5%	
Overload Capacity	60 seconds for 100% \leq load \leq 110% 30 seconds for 110% < load \leq 150% 10 seconds for 150% < load \leq 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	30A	50 A
SOLAR CHARGER		
Maximum PV Rated Power	5000W	6000W
Maximum PV Array Open Circuit Voltage	500VDC	
MPPT Operation Voltage Range	150~450VDC	
Start-up Voltage	150VDC	
Maximum input Current	20A \times 1	10A \times 2
Maximum Charging Current	60A	100A
Standby Power Consumption	60W	
JOINT UTILITY AND SOLAR CHARGING		
Maximum Charging Current	60A	100A
PHYSICAL		
Dimension (D\timesW\timesH)	580 \times 408 \times 168mm	
Net Weight	24kgs	24.2kgs
OPERATING ENVIRONMENT		
Humidity	0% to 95%(Non-condensing)	
Operating Temperature	0 $^{\circ}$ C - 40 $^{\circ}$ C	
Storage Temperature	-20 $^{\circ}$ C - 40 $^{\circ}$ C	

Specifications are subject to change without notice.