

SP5000 Vitality Eco

SP Vitality Eco Series

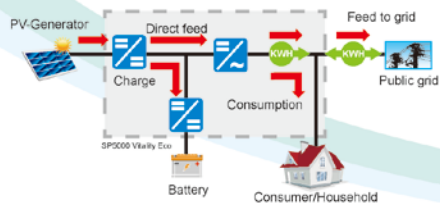


Features

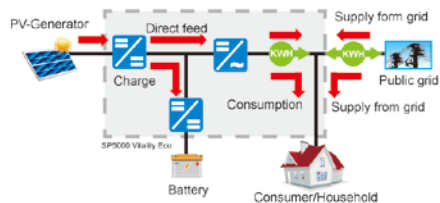
- On-Grid inverter with energy storage
- 96% High Efficiency
- 60A Charging Current
- 200% Overload
- Net-metering & Self-use functions
- Available for LiFePO4 Batteries
- USB Firmware Update design
- Parallel Operations
- Cloud monitoring for iOS & Android APP (Optional)

Operation Diagram:

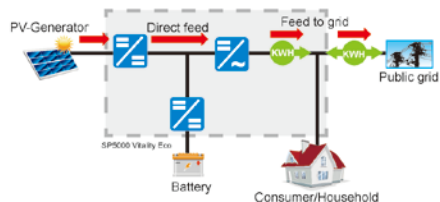
Enough PV Energy Input



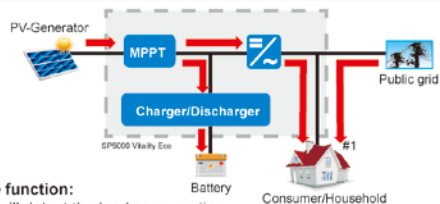
Household's consumption is higher than supply from PV



No consumption from household and the battery is fully charged



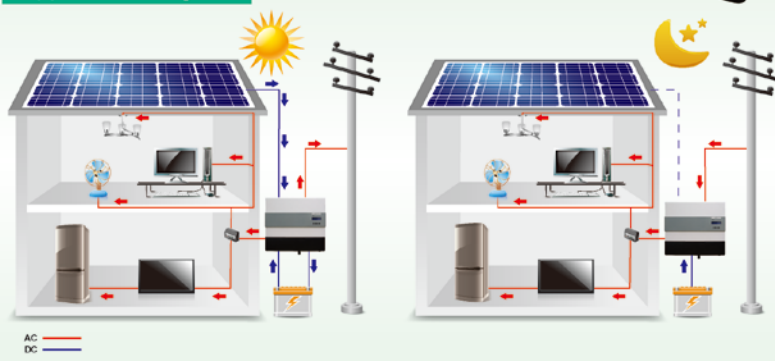
Inverter will detect the load consumption



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)

Application diagram



Specifications

| | | |
|--|---|-----|
| MODEL | SP5000 Vitality Eco | |
| Rated Power | 5000VA/4000W | |
| INPUT | | |
| Rated Voltage | 230 VAC | |
| Voltage Range | 190-300 VAC | |
| Frequency Range | 50 Hz/60 Hz (Auto sensing) | |
| OUTPUT | | |
| AC Voltage Regulation (Bat. 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 | Line Mode | 96% |
| | Bat. Mode | 92% |
| 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 | 60 A | |
| SOLAR CHARGER | | |
| Maximum PV Rated Power | 5000W | |
| Maximum PV Array Open Circuit Voltage | 500VDC | |
| MPPT Operation Voltage Range | 150~450VDC | |
| Start-up Voltage | 150VDC | |
| Maximum input Current | 20A | |
| Maximum Charging Current | 60A | |
| Standby Power Consumption | 60W | |
| JOINT UTILITY AND SOLAR CHARGING | | |
| Maximum Charging Current | 60A | |
| PHYSICAL | | |
| Dimension (D×W×H) | 425×388×116mm | |
| Net Weight | 14Kg | |
| OPERATING ENVIRONMENT | | |
| Humidity | 0% to 95% (Non-condensing) | |
| Operating Temperature | -20°C - 55°C | |

Specifications are subject to change without notice.
* Output power may be reduced for temperature > 40°C

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