

SP6000 IP Grid

SP IP Grid Series

IP65 waterproof and dustproof design.

Hybrid inverter with Grid-tie function for outdoor installations.

Split phase for 120/208 VAC operations.



Grid-tie



IP65 Water & Dustproof



Parallel Operation



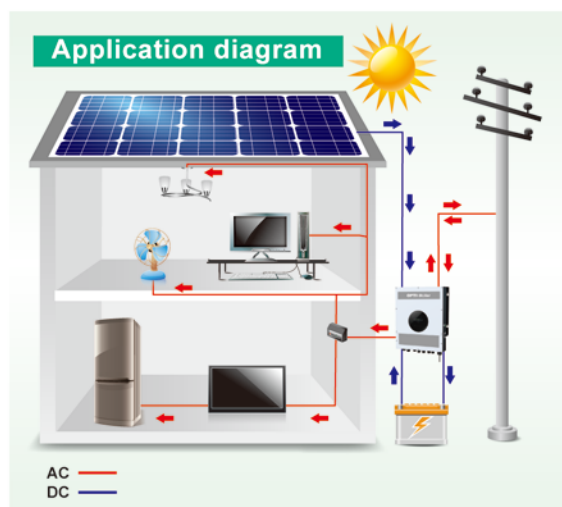
BMS Function



Wi-Fi Function

Features

- IP65 waterproof and dustproof design
- Grid-tie function with backup
- Built-in Wi-Fi for mobile monitoring (APP)
- Dual output selected as either programmable output or generator input
- Built-in alternative port for generator and emergent load
- Optional external CT sensor to guarantee 100% self-consumption.
- Built-in communication port for BMS
- User-adjustable charging current and voltage
- Parallel Operation of up to 6 units



Specifications

MODEL	SP6000 IP Grid
RATED POWER	6000 W
PV INPUT (DC)	
Maximum DC Power	7500 W
Nominal DC Voltage	360 VDC
Maximum DC Voltage	600 VDC
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC
MPP Voltage Range	120 VDC ~ 550 VDC
Maximum Input Current	2×15 A
Isc PV (absolute maximum)	21 A
Max. inverter back feed current to the array	0 A
GRID OUTPUT (AC)	
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P)
Output Voltage Range	105.5 - 132 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3~60.5Hz
Nominal Output Current	25 A per phase
Inrush Current/Duration	30 A per phase / 20ms
Maximum Output Fault Current/Duration	90 A pwer phase / 1ms
Maximum output Overcurrent Protection	90A per phase
Power Factor Range	0.9 lead - 0.9 lag
AC INPUT	
AC Start-up Voltage	85 VAC per phase
Auto Restart Voltage	90 VAC per phase
Acceptable Input Voltage Range	85 - 140 VAC per phase
Nominal Frequency	50 Hz / 60 Hz
AC Input Power	6000VA/6000W
Maximum AC Input Current	30 A
Inrush Input Current	30 A / 1ms
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	120 VAC (P-N) / 208 VAC (P-P)
Output Frequency	50 Hz / 60 Hz (auto sensing)
Output Waveform	Pure sine wave
Output Power	6000VA/6000W
Efficiency (DC to AC)	96%
BATTERY & CHARGER	
Nominal DC Voltage	48 VDC
DC Voltage Range	40 - 62 VDC
Maximum Battery Discharging Current	150 A
Maximum Charging Current	120 A
PHYSICAL	
Dimension (D × W × H)	215.5 × 515 × 700 mm
Net Weight	41kg
INTERFACE	
Communication Port	RS-232 / USB / BMS / Wi-Fi
Intelligent Slot	Optional SNMP, Modbus cards available
ENVIRONMENT	
Protective Class	I
Ingress Protection Rating	IP65
Humidity	0 ~ 90% RH (Non condensing)
Operating Temperature	-25 to 60°C
Altitude	0 ~ 2000 m*

* Power derating 1% every 100m when altitude is over 1000m.
Specifications are subject to change without notice.

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