

SP IP Grid Series

IP65 waterproof and dustproof design.

Hybrid inverter with Grid-tie function for outdoor installations.



Grid-tie



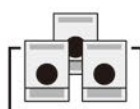
Water & Dustproof



BMS



Wi-Fi



Parallel Operation



Features

- IP65 waterproof and dustproof design
- Grid-tie function with backup
- 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	SP10000 IP Grid
RATED POWER	6000 W	10000 W
PV INPUT (DC)		
Maximum DC Power	7500 W	12000 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	2×18 A
Isc PV (absolute maximum)	21 A	21 A
Max. inverter back feed current to the array	0 A	0 A
GRID OUTPUT (AC)		
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)	
Output Voltage Range	105.5 - 132 VAC per phase	97 - 132 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3~ 60.5Hz	
Nominal Output Current	25 A per phase	41.5 A per phase
Inrush Current/Duration	30 A per phase / 20ms	60 A per phase / 20ms
Maximum Output Fault Current/Duration	90 A per phase / 1ms	120 A per phase / 1ms
Maximum output Overcurrent Protection	90A per phase	120A per phase
Power Factor Range	0.9 lead - 0.9 lag	
AC INPUT		
AC Start-up Voltage	85 VAC per phase (P-N) / 170 VAC per phase (P-P)	
Auto Restart Voltage	90 VAC per phase (P-N) / 180 VAC per phase (P-P)	
Acceptable Input Voltage Range	85 - 140 VAC per phase (P-N) / 170 - 280 VAC per phase (P-P)	
Nominal Frequency	50 Hz / 60 Hz	
AC Input Power	6000VA/6000W	10000VA/10000W
Maximum AC Input Current	30 A	40 A
Inrush Input Current	30 A / 1ms	40 A / 1ms
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)	
Output Frequency	50 Hz / 60 Hz (auto sensing)	
Output Waveform	Pure sine wave	
Output Power	6000VA/6000W	10000VA/10000W
EFFICIENCY		
DC to AC	96%	
Battery to AC	91%	
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
DC Voltage Range	40 - 62 VDC	
Maximum Battery Discharging Current	150 A	150 A
Maximum Solar Charging Current	120 A	200 A
Maximum Charging Current	120 A	200 A
Maximum PV Input Current	27A	
Maximum PV Input Short Circuit Current	30A	
PHYSICAL		
Dimension (D × W × H)	215.5 × 515 × 700 mm	
Net Weight	41kg	45kg
INTERFACE		
Communication Port	RS-232 / USB / BMS	
Intelligent Slot	Optional SNMP, Modbus cards available	
ENVIRONMENT		
Protective Class	I	
Ingress Protection Rating	IP65	
Humidity	0 ~ 90% RH (No condensing)	
Operating Temperature	-25 to 60°C	
Altitude	0 ~ 2000 m*	

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

