

SP6000 ~ 10000 IP Grid HV

SP IP Grid HV Series

IP66 waterproof and dustproof design.

Hybrid inverter with Grid-tie function for outdoor installations.



Grid-tie



Water & Dustproof



Dual Input



BMS



Wi-Fi

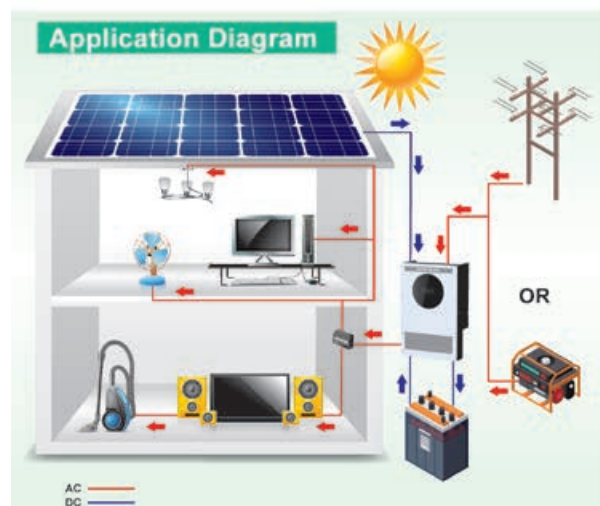


Parallel Operation



Features

- Grid-Tie function with backup
- IP66 design
- Dual inputs selected as either programmable Main Grid or generator
- Dual outputs connected and switched automatically
- Built-in alternative port for generator and emergent load
- Built-in BMS & Wi-Fi for mobile monitoring (APP)
- User-adjustable charging current and voltage
- Parallel operation up to 9 units



Specifications

MODEL	SP6000 IP Grid HV	SP10000 IP Grid HV
RATED POWER	6600VA/6600W	10600VA/10600W
Maximum Charging Capacity	6600W	10600W
PV INPUT (DC)		
Maximum DC Power	12000 W	18000 W
Nominal DC Voltage	320 VDC	
Maximum DC Voltage	500 VDC	
Start-up Voltage / Initial Feeding Voltage	125 VDC / 160 VDC	
MPP Voltage Range	120 VDC ~ 450 VDC	
Maximum Input Current	2*21 A	2*27 A
Isc PV (absolute maximum)	26.25 A	32.25A
Max. inverter back feed current to the array	0 A	
GRID OUTPUT (AC)		
Nominal Output Voltage	220 / 230 / 240 VAC	
Output Voltage Range	184 - 264.5 VAC	
Output Frequency Range	47.5 ~ 51.5 Hz	
Nominal Output Current	28.7 A	46.1A
Surge Rating	170% Load for 10 sec.	
THDI	≤ 10%	
AC INPUT		
AC Start-up Voltage	60 VAC	
Auto Restart Voltage	180 VAC	
Acceptable Input Voltage Range	90 - 280 VAC or 170 - 280 VAC	
Nominal Frequency	50 Hz / 60 Hz	
Maximum AC Input Current	40 A	60A
Inrush Input Current	40 A / 1ms	60A / 1ms
Maximum Conversion Efficiency DC to AC	97%	
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	220 / 230 / 240 VAC	
Output Frequency	50 Hz / 60 Hz (auto sensing)	
Output Waveform	Pure sine wave	
Maximum discharging current	135A	210A
Harmonic Distortion	≤ 3% THD (Linear Load); ≤ 5% THD (Non-linear Load)	
Efficiency (DC to AC)	93%	
BATTERY & CHARGER		
Nominal DC Voltage	48 VDC	
DC Voltage Range	40 - 60 VDC	
Maximum Battery Discharging Current	135 A	210A
Maximum Charging Current	135 A	210A
PHYSICAL		
Dimension, D × W × H (mm)	633 × 418 × 192	
Net Weight (kgs)	23.5	29
INTERFACE		
Communication Port	RS-232 / USB / BMS / Wi-Fi	
Optional	SNMP & Modbus	
PROTECTION & STANDARD		
Safety / EMC	IEC/EN 62109-1, IEC/EN 62109-2, IEC/EN 61000-6-2/4, IEC 61683, IEC 62116, IEC 61727	
ENVIRONMENT		
Ingress Protection Rating	IP66	
Humidity	0 ~ 95% RH (No condensing)	
Operating Temperature	-10 to 50°C	
Altitude	0 ~ 2000 m*	

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

OPTI-Solar Asia:
Tel: +886-2-2246-7272
Fax: +886-2-2246-7312

OPTI-Solar USA:
Tel: +1-909-869-5700
Fax: +1-909-869-5730

OPTI-Solar Middle East:
Tel: +9714-8819-838
Fax: +9714-8819-638

OPTI-Solar Europe B.V.:
Tel: +31-40-2628050