

SM-SOLON-UL-6KW

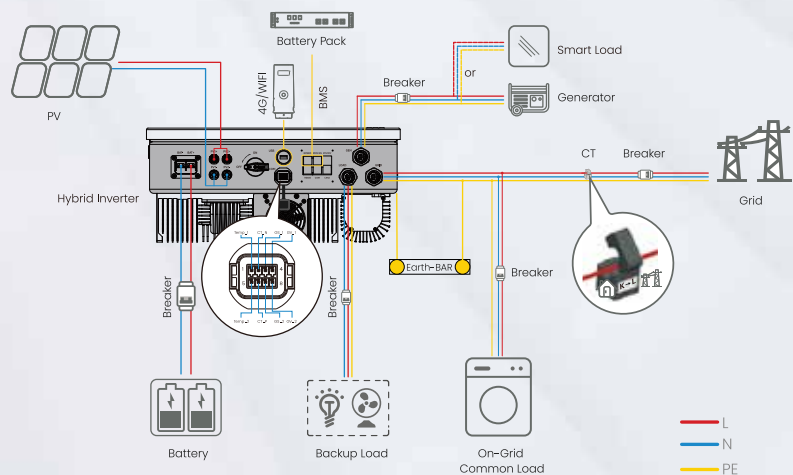
Single-Phase IP65 Hybrid Solar Inverter



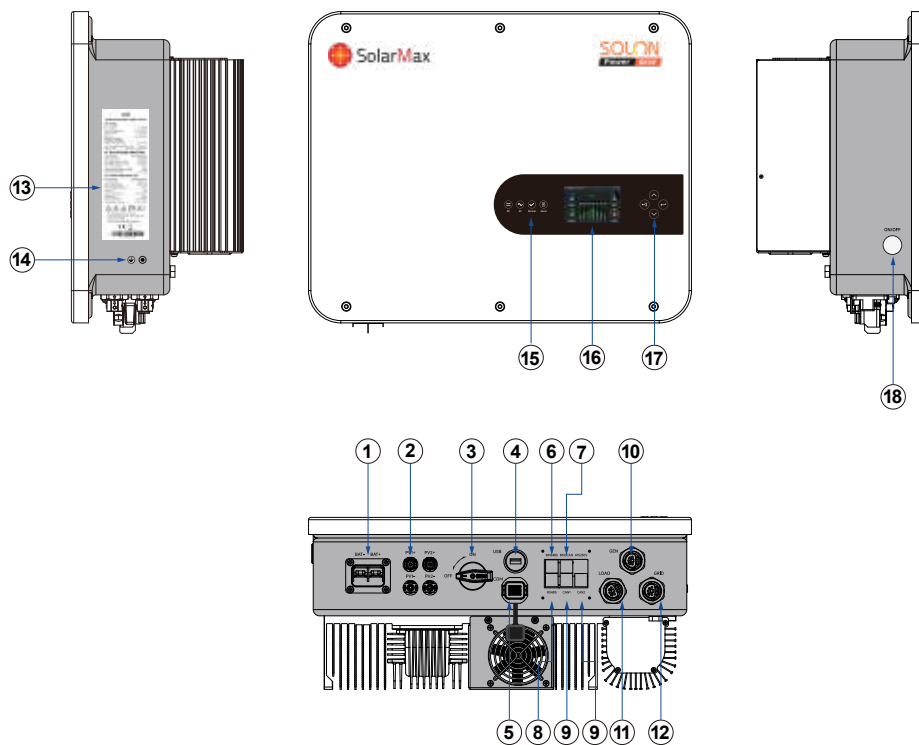
5 YEARS REPLACEMENT WARRANTY

& LIFETIME FREE SERVICE WARRANTY

Terms & Conditions Apply



Product Overview



SN.	Part Name	Description
1	Battery Wiring Port	For battery connection.
2	DC Input Terminals	2-channel photovoltaic connector.
3	DC Switch	For controlling the shutdown of DC input.
4	USB Interface	For the WiFi/4G collector monitoring.
5	COM Interface	Battery temperature sampling, external CT connection, diesel generator start or stop control interface.
6	BMS 485 Interface	BMS lithium battery RS485 communication.
7	BMS CAN Interface	BMS lithium battery CAN communication.
8	RS485 Interface	For ammeter communication.
9	CAN1 & CAN2 Interface	Multi-device parallel communication.
10	GEN	For the diesel generator Or Smart Load
11	LOAD	For important load wiring.
12	GRID	For power grid wiring.
13	Labels	Including nameplate, warning label, and QR code.
14	External Grounding Terminal	For reliable grounding of inverters.
15	LED Indicator	For indicating the current inverter status.
16	LCD Screen	For indicating the current operating information and touch control of the inverter.
17	Function button	For manual control.
18	On/Off Button	For Manual Control

Model	SM-SOLON-UL-6KW
PV(DC)	
Recommended Max PV Input Power	9200 Wp
Max Input Voltage	500 V
Start-up Voltage	125 V
Rated Input Voltage	370 V
MPPT Input Voltage Range	125-500 V
MPPT Max. Input Current	18 A
MPPT Short-Circuit Current	20 A
No. of MPPT	2
No. of Strings per MPPT	1

Grid(AC)	
Max. Input Apparent Power	6000 W
Rated Output Power	6000 W
Max. Output Apparent Power	6600 VA
Rated AC Voltage	L/N/PE, 220 / 230 240 V
Input/Output Voltage Range	180-300 V
Rated Output Voltage Frequency	50/60Hz
Input/Output Voltage Frequency Range	(45-5) / (55-65) Hz
Rated Output Current	26.1 A
Max. Input/Output Current	28.7 A
Power Factor (Rated)	> 0.99
Power Factor (Adjustable)	0.8 Leading... 0.8 Lagging
Total Harmonic Distortion	<3% (Rated Power)
Grid Connection Mode	L/N/PE

AC Load Output (Off-Grid)	
Rated Output Power	6600 W
Max. Output Apparent Power	6600 W
Rated Output Voltage	L/N/PE, 220 / 230 / 240 V
Output Voltage Range	200-240 V
Rated Output Frequency	50/60Hz
Rated Output Current	26.1 A
Max. Output Current	28.7 A
Total Harmonic Distortion	<3% (R Load)
On-grid/Off-grid Switching Time	<10 ms

Model	SM-SOLON-UL-6KW
Battery (DC)	
Rated Output Power	6000 W
Max. Charge/Discharge Power	6000 W
Rated Voltage	48 VDC
Battery Voltage Range	40-60 VDC
Max. Charge/Discharge Current	135 A
Communication Port	CAN/RS485

Efficiency	
Max. Efficiency	97.6%
Max. MPPT Efficiency	99.9%
Max. Euro Efficiency	96.5%

Protection	
Integrated Protection	Anti-flow Protection, DC Reverse Protection, DC Circuit Breaker, Insulation Resistor Detection, GFC Leakage Current Monitoring, Anti-islanding Protection, Residual Current Monitoring, Reverse Polarity Protection, Off-grid Overload Protection
Surge Protection	DC Type, II, AC Type II

Display and Communication	
Display	LCD+LED+APP
Communication	RS485, 4G(Optional), Wifi(Dongle Included)

General Data	
Dimensions (WxHxD)	580x330x232 mm
Weight	20.5kg
Operating Temperature Range	-25 ~ 60 °C
Noise	<35 dB
Cooling	Smart Cooling
Installation Style	Wall-mounted
Protection Rating	IP65
Warranty	5 Years

Standards Compliance	
Grid Connection	IEC 62116, IEC 61727, NRS 097-2-1, EN 50549, EN 50438, C10/11, CE 0-21, AS 4777.2, UNE 206006/206007, VDE 4105
Safety Regulation	EN/IEC 62109-1/2
Others	EN/IEC 61000-6-1/3, IEC 60068, IEC 61683