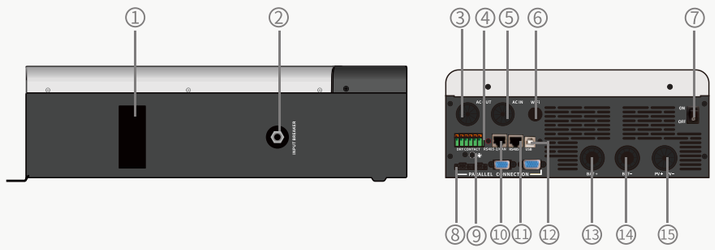
IP54 Level 230V EU Standard Hybrid Solar Inverter
6.2KW / 12KW



Features

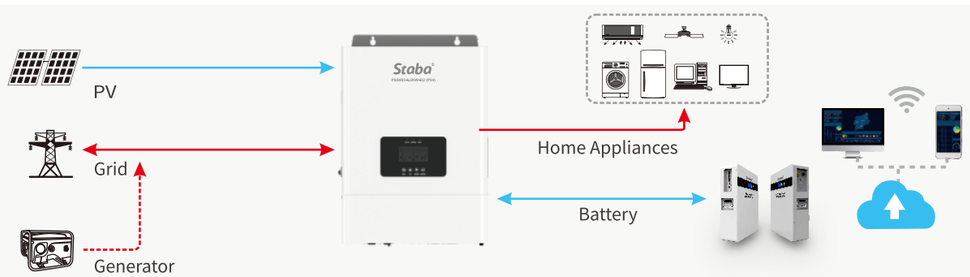
- Supports operation without batteries.
- Supports energy saving mode to reduce no-load loss.
- Supports time-slot charging and discharging (via APP only).
- Supports Li-ion battery activation by connection of either utility power or PV panel.
- Smart LCD settings (working mode, charging current, charging voltage, etc).
- Complete protecting functions.
- Supports RS485, CAN, WiFi / GPRS monitoring.
- RS485/CAN communication for BMS.
- Supports a maximum of 6pcs in parallel operation
- IP54 ingress protection.

Interface Description



1. Intelligent Cooling Fan
2. AC Input Circuit Breaker
3. AC Output Terminal
4. Dry Contact Port
5. AC Input Terminal
6. Wifi Stick Port
7. On/Off Switch
8. Parallel Connection Port
9. Ground (PE) Terminal
10. RS485/CAN Communication Port
11. RS485 Communication Port
12. USB Communication Port
13. Battery Terminal +
14. Battery Terminal -
15. PV Input Terminal (+, -)

Solar System Connection



Technical Specifications

MODEL	PSS903-6.2KW-EU (IP54)	PSS903-12KW-EU (IP54)
INVERTER OUTPUT		
Rated Output Power	6200VA / 6200W	12000VA / 12000W
Surge Power	12000VA	24000VA
Battery Voltage	48VDC	
Output Waveform	Pure Sine Wave	
Rated Output Voltage	230VAC±5%	
Output Frequency	50Hz / 60Hz	
Efficiency	>92%	
Transfer Time	10ms typically, 20ms max	
Overload Capability	100% < load <125% : 5 minutes; 125% < load <150% : 10 seconds; Load >150%: 5 seconds	
Power Saving Mode	Load≤25W	Load≤50W
AC INPUT		
Rated Input voltage	230VAC	
Input Voltage	170-280VAC (UPS mode); 90-280VAC (Appliance mode)	
Input Frequency	47-55Hz (50Hz) or 57-65Hz (60Hz) auto sense	
Max Bypass Overload Current	40A	63A
BATTERY		
Battery Type	Lead-acid / Li-ion / User-defined	
Battery Voltage	48VDC	
Charging Voltage	54.8VDC	
Max. Charging Voltage	60VDC	
SOLAR & AC CHARGING		
No. of MPPT Tracker	1	2
Max. PV Input Voltage	500VDC	
Max. PV Input Power	6500W	9000W + 9000W
Max. PV Input Current	27A	27A + 27A
MPPT Range	90-450VDC (start-up voltage 120VDC)	
Max. PV Charging Current	100A	150A
Max. AC Charging Current	80A	150A
Max Total Charging Current	100A	150A
OTHER		
Communication	USB, RS485 / CAN, WiFi / GPRS, Dry contact	
Parallel Function	Yes, max 6pcs	
Cooling	Forced air cooling, intelligent variable speed fan	
Noise Level	≤60dB at 1m distance	
Ingress Protection	IP54	
CERTIFICATIONS & STANDARDS		
EMC	EN61000-6-1, EN61000-6-3	
LVD	IEC 62109-1, IEC 62109-3	
OPERATING CONDITIONS		
Operating Temperature	-10°C ~ 55°C	
Storage Temperature	-25°C ~ 60°C	
Operating Humidity	10% -90%, non-condensing	
PACKING		
Product Size (W x H x D)	325x486x125 mm	458x610x150 mm
Net Weight	10 kgs	20 kgs
Package Size (L x W x H)	550x375x200 mm	665x530x220 mm
Gross Weight	11.6 kgs	22.6 kgs