120V US Standard Hybrid Solar Inverter
3.6KW / 6.5KW

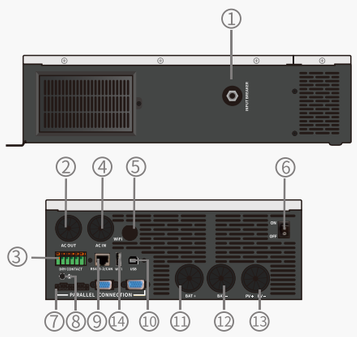


Features

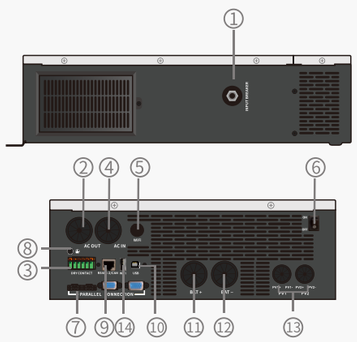
- Supports operation without batteries.
- Supports energy saving mode to reduce no-load loss.
- Supports time-slot charging and discharging (via APP only).
- Supports Li-ion battery activation by connection of either utility power or PV panel.
- Smart LCD settings (working mode, charging current, charging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

Interface Description

PSS901-3.6KW-US

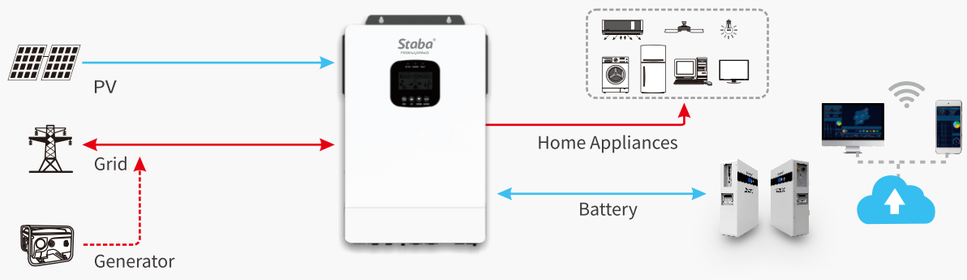


PSS901-6.5KW-US



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

Solar System Connection



Technical Specifications

MODEL	PSS901-3.6KW-US	PSS901-6.5KW-US
INVERTER OUTPUT		
Rated Power	3600VA/3600W	6500VA/6500W
Surge power	1.5 times for 5s	
Battery Voltage	48VDC	
Output Waveform	Pure sine wave	
Rated Output Voltage	120VAC±5%	
Output Frequency	60Hz	
Efficiency	>91%	
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	
AC INPUT		
Rated Input Voltage	120VAC	
Input Voltage Range	90-140VAC	
Input Frequency	57-65Hz	
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	300VDC	
Max. PV Input Power	4500W	4500W + 4500W
Max. PV Input Current	22A	22A + 22A
MPPT Range	90-260VDC	
Max. PV Charging Current	80A	150A
Max. AC Charging Current	60A	120A
Max. Total Charging Current	80A	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	IP21	
CERTIFICATIONS & STANDARDS		
EMC	FCC 15 CLASS B	
LVD	UL1741	
OPERATING CONDITIONS		
Operating Temperature	0°C ~ 50°C	
Storage Temperature	-15°C ~ 50°C	
Operating Humidity	10%-90%, non-condensing	
PACKING		
Product Size (W x H x D)	280x428x110 mm	365x550x130 mm
Net Weight	7.8 kgs	16 kgs
Package Size (L x W x H)	484x357x177 mm	678x459x213 mm
Gross Weight	9.5 kgs	19 kgs