120V / 240V US Standard Split Phase Hybrid Solar Inverter
7.2KW / 10KW / 12KW

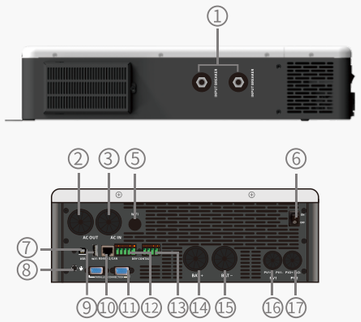


Features

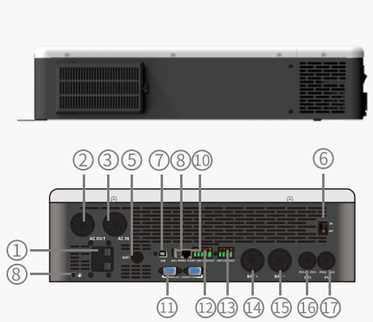
- Supports split phase 120V / 240V input and output.
- Supports operation without batteries.
- Supports time-slot charging and discharging (via APP or LCD screen).
- Supports energy saving mode to reduce no-load loss.
- Supports Li-ion battery activation by connection of either utility power or PV panel.
- Smart touch 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 6 pcs in parallel operation.

Interface Description

PSS901-7.2KW-US

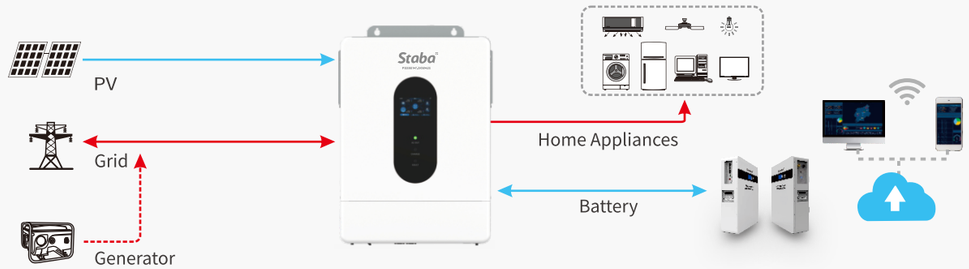


PSS901-10KW-US, PSS901-12KW-US,



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

Solar System Connection



Technical Specifications

MODEL	PSS901-7.2KW-US	PSS901-10KW-US	PSS901-12KW-US
INVERTER OUTPUT			
Rated Power	L1 to L2: 7200VA/7200W	L1 to L2: 10000VA/10000W	L1 to L2: 12000VA/12000W
	L1 / L2 to N: 3600VA/3600W	L1 / L2 to N: 5000VA/5000W	L1 / L2 to N: 6000VA/6000W
Surge power	L1 to L2: 10800VA	L1 to L2: 15000VA	L1 to L2: 18000VA
	L1 / L2 to N: 5400VA	L1 / L2 to N: 7500VA	L1 / L2 to N: 9000VA
Battery Voltage	48VDC		
Output Waveform	Pure sine wave		
Rated Output Voltage	L1+L2+N+PE: 120VAC / 240VAC, 120VAC / 208VAC		
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	L1+L2+N+PE: 120VAC / 240VAC, 120VAC / 208VAC		
Input Voltage	85-140VAC (phase to neutral)		
Input Frequency	57-65Hz		
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	2		
Max. PV Input Voltage	500VDC		
Max. PV Input Power	4500W+4500W	6000W+6000W	9000W + 9000W
Max. PV Input Current	16A+16A	22A+22A	27A + 27A
MPPT Range	90-450VDC		
Max. PV Charging Current	150A	220A	250A
Max. AC Charging Current	120A	120A	160A
Max. Total Charging Current	150A	220A	250A
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		
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)	350x540x120 mm	450x620x132 mm	
Net Weight	15.6 kgs	26 kgs	24 kgs
Package Size (L x W x H)	696x483x214mm	768x564x224 mm	
Gross Weight	18 kgs	27 kgs	28 kgs