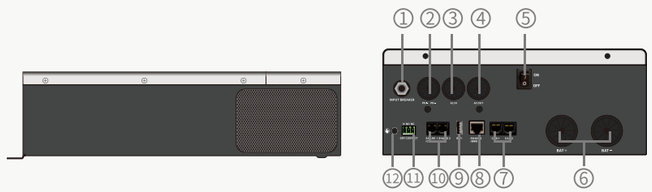
230V On/Off Grid Solar Inverter
4.2KW / 6.2KW



Features

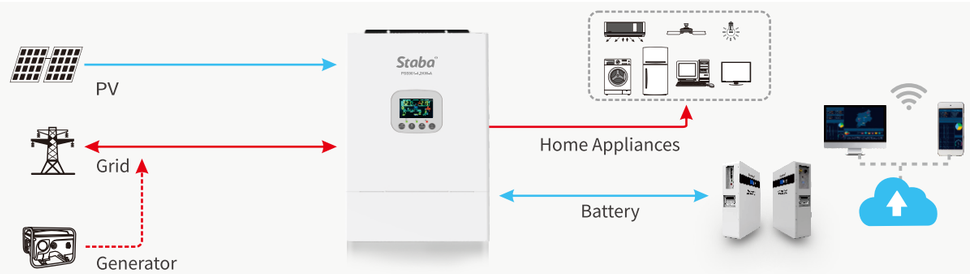
- Supports operation without batteries.
- Supports energy saving mode to reduce no-load loss.
- Supports Li-ion battery activation by connection of either utility power or PV panel.
- Smart LCD settings (working mode, charging current, charging voltage, etc).
- Complete protecting functions.
- Supports RS485, CAN, WiFi / GPRS monitoring.
- RS485/CAN communication for BMS.
- Supports a maximum of 12pcs in parallel operation

Interface Description



1. AC Input Breaker
2. PV Input Terminal (+, -)
3. AC Input Terminal
4. AC Output Terminal
5. On/Off Switch
6. Battery Terminal (+, -)
7. CAN 1 / CAN 2 Port (for parallel only)
8. RS485/BMS Communication Port
9. WiFi Stick Port
10. Share 1 / Share 2 Port (for parallel or CT only)
11. Dry Contact Port
12. Ground (PE) Terminal

Solar System Connection



Technical Specifications

MODEL	PSS901-4.2KW-A	PSS901-6.2KW-A
INVERTER OUTPUT		
Rated Power	4200VA / 4200W	6200VA / 6200W
Surge Power	8400VA	12000VA
Battery Voltage	24VDC	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≤25W
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	40A
BATTERY		
Battery Type	Lead-acid / Li-ion / User-defined	
Battery Voltage	24VDC	48VDC
Charging Voltage	27VDC	54.8VDC
Max. Charging Voltage	31VDC	62VDC
SOLAR & AC CHARGING		
No. of MPPT Tracker	1	
Max. PV Input Voltage	500VDC	
Max. PV Input Power	4000W	6500W
Max. PV Input Current	22A	27A
MPPT Range	60-450VDC (startup voltage 90VDC)	
Max. PV Charging Current	150A	120A
Max. AC Charging Current	120A	100A
Max. Total Charging Current	150A	120A
OTHER		
Communication	RS485/CAN, WiFi, GPRS, Dry contact	
Parallel Function	N/A	Yes, max 12 pcs
Cooling	Forced air cooling, intelligent variable speed fan	
Noise Level	≤60dB at 1m distance	
Ingress Protection	IP21	
CERTIFICATIONS & STANDARDS		
EMC	EN61000-6-1, EN61000-6-3	
LVD	IEC 62109-1, IEC 62109-3	
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)	280x425x110 mm	
Net Weight	9 kgs	10 kgs
Package Size (L x W x H)	520x380x220 mm	
Gross Weight	10.6 kgs	11.6 kgs