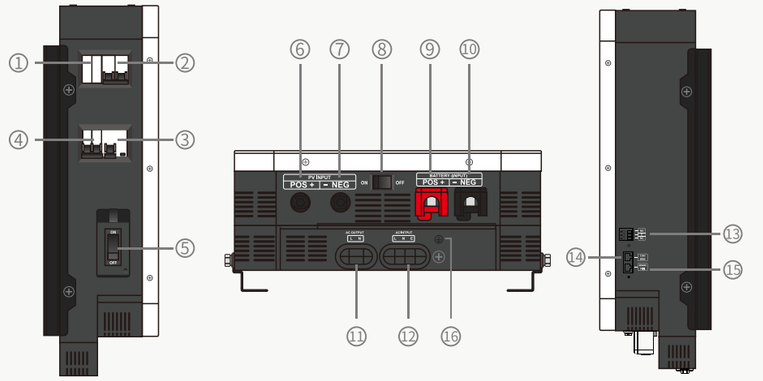
230V Off Grid Solar Inverter With Combiner Box
4.2KW / 6.2KW



Features

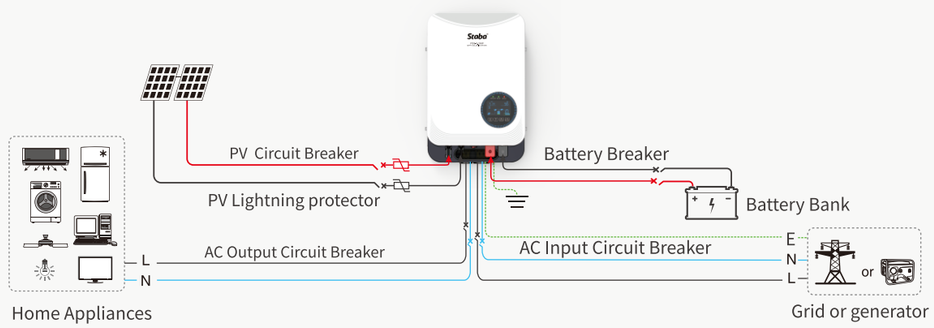
- With built-in combiner box, for easy and convenient installation.
- Supports operation without batteries.
- Supports energy saving mode to reduce no-load loss.
- Supports Li-ion battery activation by connection of either utility power or PV panel.
- Smart LCD settings (working mode, charging current, charging voltage, etc).
- Complete protection functions.
- Supports RS485, WiFi / GPRS monitoring.

Interface Description



1. PV Input Lightning Protector
2. PV Input Circuit Breaker
3. AC Output Circuit Breaker
4. AC Input Circuit Breaker
5. Battery Circuit Breaker
6. PV Input Terminal +
7. PV Input Terminal -
8. On/Off Switch
9. Battery Terminal +
10. Battery Terminal -
11. AC Output Terminal
12. AC Input Terminal
13. Dry Contact Port
14. CAN/BMS Communication Port
15. RS 485/WiFi Communication Port
16. Ground (PE) Terminal

Solar System Connection



Technical Specifications

MODEL	PSS901-4.2KW-C	PSS901-6.2KW-C
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	125% < load <150%: 10 seconds; Load >150%: 5 seconds	
Power Saving Mode	Load≤25W	
AC INPUT		
Rated Input Voltage	230VAC	
Input Voltage	190-253VAC (UPS mode) ; 105-253VAC (Appliance mode) 170-280VAC (UPS mode) ; 90-280VAC (Appliance mode)	
Input Frequency	47-55Hz (50Hz) or 57-65Hz (60Hz) auto sense	
BATTERY		
Battery Type	Lead-acid / Li-ion / User-defined	
Battery Voltage	24VDC	48VDC
Charging Voltage	27VDC	54.8VDC
Max. Charging Voltage	32VDC	60VDC
SOLAR & AC CHARGING		
Max. PV Input Voltage	500VDC	
Max. PV Input Power	7200W	
Max. PV Input Current	22A	
MPPT Range	45-450VDC (startup voltage 65VDC)	
Max. PV Charging Current	100A	
Max. AC Charging Current	80A	
Max. Total Charging Current	100A	
BUILT-IN COMBINER BOX		
PV Input Circuit Breaker	2P, 63A	
PV Input Lightning Protector	2P, 1000V	
Battery Circuit Breaker	1P, 250A	
AC Input Circuit Breaker	2P, 63A	
AC Output Circuit Breaker	2P, 63A	
OTHER		
Communication	RS485 / CAN, WiFi, Dry contact	
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)	360x530x140 mm	
Net Weight	12 kgs	12.2kgs
Package Size (L x W x H)	630x460x273 mm	
Gross Weight	13.6 kgs	13.8 kgs