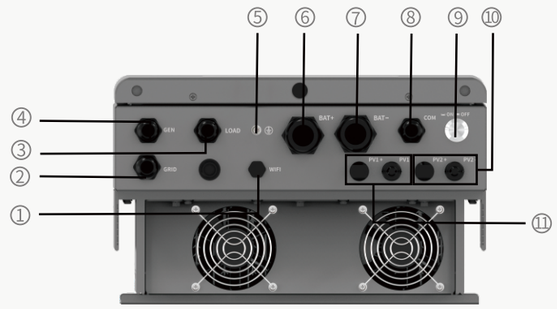
IP65 Level 230V EU Standard Hybrid Solar Inverter
6KW / 8KW



Features

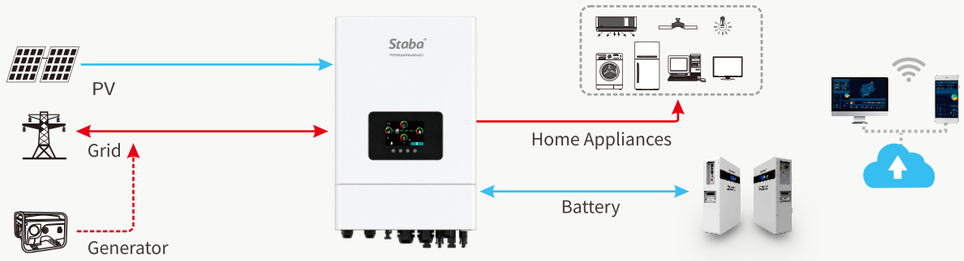
- Built-in WiFi.
- Advanced MPPT up to 99.9% efficiency.
- Dual MPPT input and tracker.
- Supports time-slot charging and discharging (via APP or LCD screen).
- Colorful Touch Screen for very convenient settings.
- Complete protection functions.
- Supports RS485, CAN, WiFi / GPRS monitoring.
- RS485 / CAN communication for BMS.
- Supports a maximum of 6pcs in parallel operation.
- IP65 ingress protection.

Interface Description



1. WiFi Antenna
2. Grid Terminal
3. Load Terminal
4. Generator Terminal
5. Ground (PE) Terminal
6. Battery Terminal +
7. Battery Terminal –
8. Communication Port
9. On/Off Switch
10. PV 2 Terminal (+,-)
11. PV 1 Terminal (+,-)

Solar System Connection



Technical Specifications

MODEL	PSS902-6KW-48V-EU（IP65）	PSS902-8KW-48V-EU（IP65）
OFF-GRID OUTPUT		
Rated Output Power	6000VA / 6000W	8000VA / 8000W
Surge Power	12000VA	16000VA
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	
ON-GRID OUTPUT		
Rated Output Power	6000W	8000W
Rated Output Voltage	230VAC±5%	
Rated Output Current	26A	34.8A
Max. Output Current	28.6A	38.3A
THDI	< 3%	
Power Factor	0.8 leading to 0.8 lagging	
Frequency	50Hz / 60Hz	
BATTERY & CHARGER		
Battery Type	Lead-acid / Li-ion / User-defined	
Rated Battery Voltage	48VDC (minimum start-up voltage 44VDC)	
Battery Voltage Range	40-60VDC	
Max. PV Charging Current	100A	
Max. AC Charging Current	60A	80A
Max. Total Charging Current.	100A	
PV INPUT		
No. of MPPT Tracker	2	
Max. PV Charging Current	100A	
Max. Input Power	4500W + 4500W	6000W + 6000W
Max. Input Current	16A + 16A	22A + 22A
Max. Open-circuit Voltage	500VDC	
MPPT Range	120 - 450VDC	
AC INPUT		
Input Voltage	170-280VAC	
Input Frequency	50 / 60 Hz	
Max Bypass Overload Current	40A	50A
EFFICIENCY		
MPPT Track Efficiency	99.9%	
Max Efficiency	97.5%	
European Efficiency	97%	
OTHER		
Communication	RS485 / CAN, WiFi / GPRS, Dry contact	
Parallel Function	Yes, max 6pcs	
Cooling	Natural & Forced air cooling	
Noise Level	⩽60dB at 1m distance	
Ingress Protection	IP65	
CERTIFICATIONS & STANDARDS		
On-Grid	EN50549-1, G99, NRS-097, VDE-ARN-4105, CEI021, UNE217002	
EMC	EN61000-6-1, EN61000-6-3	
LVD	IEC 62109-1, IEC 62109-3	
OPERATING CONDITIONS		
Operating Temperature	-25°C ~ 60°C , >45°C derating	
Operating Humidity	5% -95%, non-condensing	
PACKING		
Product Size (W x H x D)	345x556x205 mm	
Net Weight	20 kgs	21 kgs
Package Size (L x W x H)	635x420x285 mm	
Gross Weight	22 kgs	23 kgs