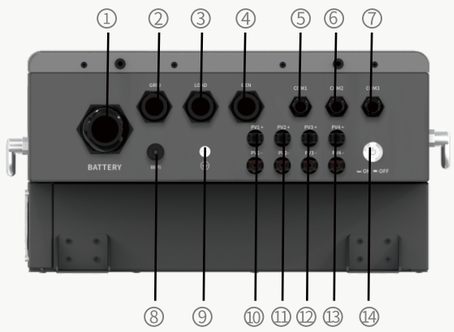
IP65 Level 230V EU Standard Hybrid Solar Inverter
10KW / 12KW



Features

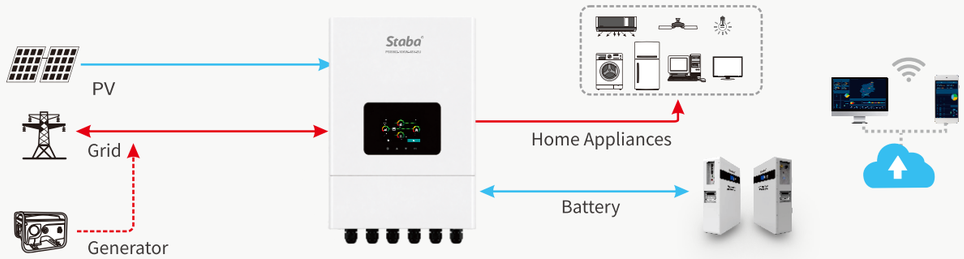
- Built-in WiFi.
- Advanced MPPT up to 99.9% efficiency.
- Dual MPPT input and tracker.
- Supports time-slot charging and discharging (via APP or LCD screen).
- Colorful Touch Screen for very convenient settings.
- Complete protection functions.
- Supports RS485, CAN, WiFi / GPRS monitoring.
- RS485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

Interface Description



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

Solar System Connection



Technical Specifications

MODEL	PSS902-10KW-48V-EU (IP65)	PSS902-12KW-48V-EU (IP65)
OFF-GRID OUTPUT		
Rated Output Power	10000VA / 10000W	12000VA / 12000W
Surge Power	20000VA	24000VA
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	10000W	12000W
Rated Output Voltage	230VAC±5%	
Rated Output Current	43.5A	52A
Max. Output Current	47.8A	54.5A
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	120A	
Max. AC Charging Current	200A	
Max. Total Charging Current.	200A	
PV INPUT		
No. of MPPT Tracker	2	
Max. PV Charging Current	100A	
Max. Input Power	7500W + 7500W	9000W + 9000W
Max. Input Current	27A +27A	
Max. Open-circuit Voltage	500VDC	
MPPT Range	120 - 450VDC	
AC INPUT		
Input Voltage	170-280VAC (UPS mode); 90-280VAC (Appliance mode)	
Input Frequency	50 / 60 Hz	
Max Bypass Overload Current	63A	
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)	500x750x245 mm	
Net Weight	47 kgs	49 kgs
Package Size (L x W x H)	800x550x330 mm	
Gross Weight	51 kgs	53 kgs