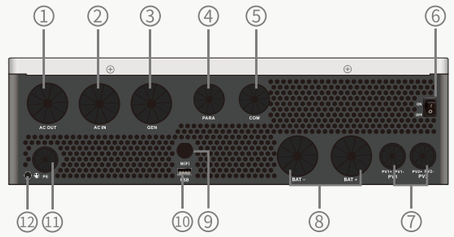
120V / 208V or 127V / 220V Three Phase Hybrid Solar Inverter
12KW / 16KW



Features

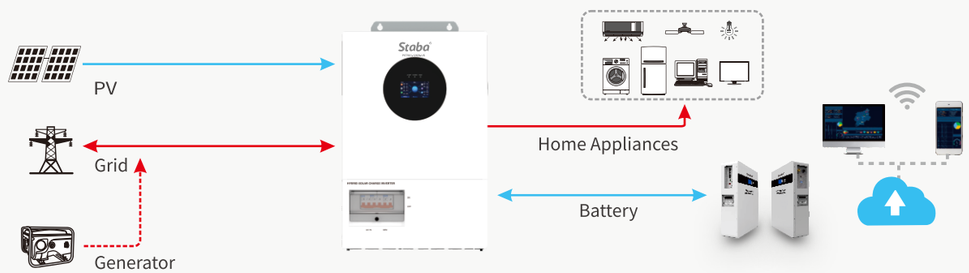
- Supports three phase 120V / 208V or 127V / 220V input and output.
- Supports operation without batteries.
- 100% imbalanced loading capability between three phases
- Supports time-slot charging and discharging (via LCD screen or APP).
- Smart Touch LCD settings
  (working mode, charging current, charging voltage, etc).
- AFCI+RSD+ISO protections
- Supports RS485, CAN, WiFi / GPRS monitoring.
- RS485 / CAN communication for BMS.
- Supports a maximum of 6pcs in parallel operation.

Interface Description



1. AC Output Terminal
2. AC Input Terminal
3. Generator Terminal
4. Parallel Communication Port
5. Communication Port
6. On/Off Switch
7. PV1 / PV2 Terminal (+, -)
8. Battery Terminal (+, -)
9. WiFi Stick Port 1
10. WiFi Stick Port 2
11. Ground (PE) Screw
12. PE Terminal

Solar System Connection



Technical Specifications

MODEL	PST901-12KW-US	PST901-16KW-US
INVERTER OUTPUT		
Rated Output Power	12000VA / 12000W	16000VA / 16000W
Surge Power	150% of rated power for 5s	
Rated Output Voltage	120V / 208VAC±5% (L1+L2+L3+N+PE)	
Output Frequency	50Hz / 60Hz	
Efficiency	>93.5%	
THD	<3%	
Transfer Time	10ms (typical), 20ms max	
BATTERY		
Battery Type	Lead-acid / Li-ion	
Rated Battery Voltage	48VDC	
Battery Voltage Range	40-60VDC	
Max. Charging Current	250A	300A
Max. AC Charging Current	200A	
Max. Generator Charging Current	160A	
Max. PV Charging Current	250A	300A
PV INPUT		
No. of MPPT Tracker	2	
Max. Input Power	12000W + 12000W	
Max. Input Current	32A + 32A	
Max. Open-circuit Voltage	500VDC	
PV Input Voltage	90-450VDC (star voltage 120VDC)	
AC INPUT		
Rated Input Voltage	120V / 208VAC (L1+L2+L3+N+PE)	
Input Phase Voltage	85-140VAC	
Input Frequency	50Hz (47-55Hz) or 60Hz(57-65Hz)	
OTHER		
Protections	AFCI, PV insulation resistance detection, residual current detection, PV reverse polarity, output overcurrent, short circuit, over voltage, etc.	
Communication	RS485 / CAN / WiFi / GPRS / Dry contact	
BMS	RS485 / CAN	
Noise Level	⩽35dB at 1m distance	
Ingress Protection	IP21	
CERTIFICATIONS & STANDARDS		
Safety	Ul1741 / CSA C22.2#107.1	
EMC	FCC part 15, CLASS B	
OPERATING CONDITIONS		
Operating Temperature	0°C ~ 50°C	
Operating Humidity	10%-90%, non-condensing	
Operating Altitude	<4000m, above 2000m derating	
PACKING		
Product Size (L x W x H)	482x720x150 mm	
Gross Weight	30 kgs	31 kgs