



PHOTON SOLAR PS-5000 Series

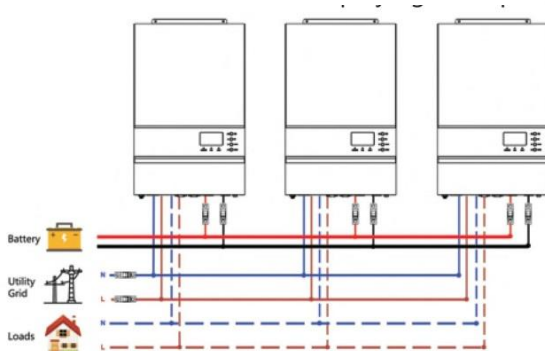
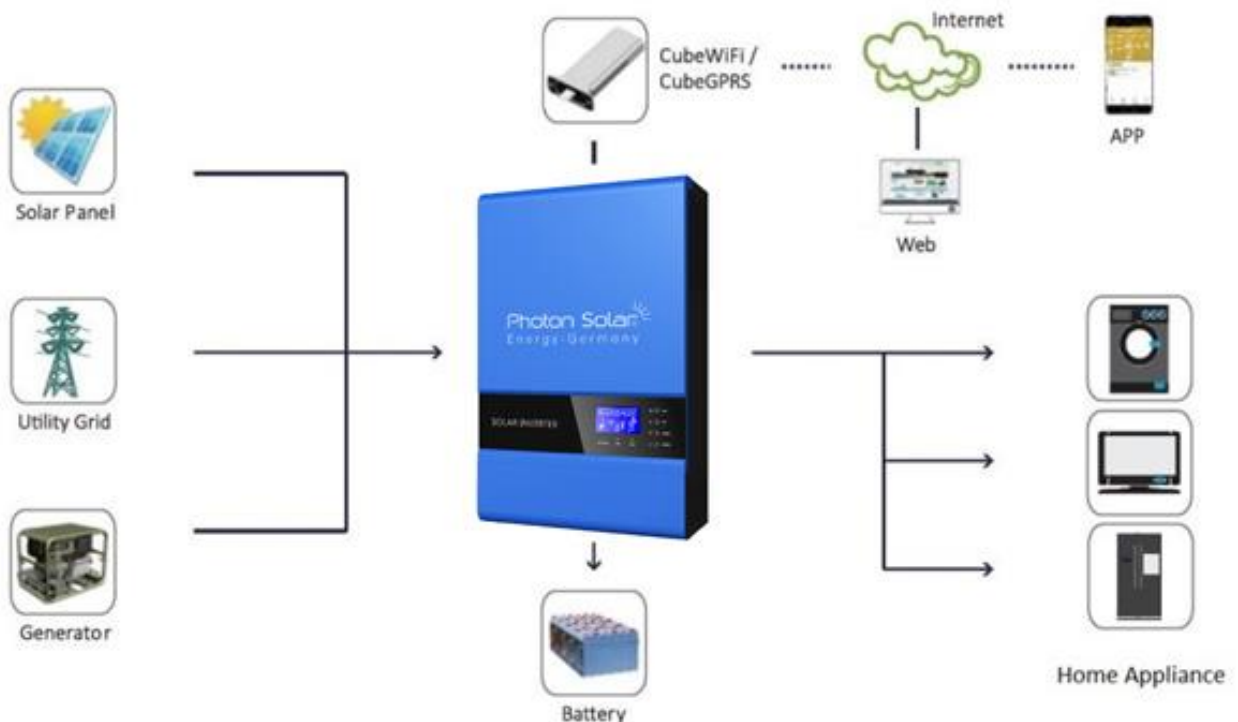
High Efficiency Off-grid Solar Inverter



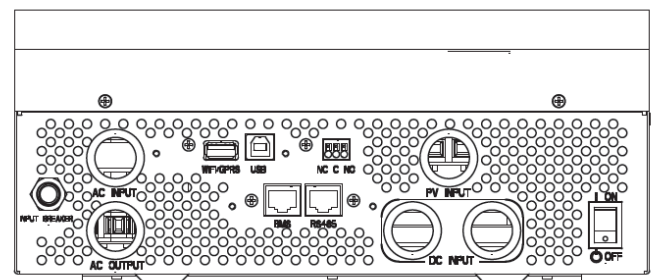
The Photon Solar PS-5000 series high efficiency off-grid solar inverter is a powerful pure sine wave inverter with an integrated MPPT solar charger controller and UPS module in one. Remote monitoring is available by using WiFi/GPRS kit.

Main Features

- Configurable AC/solar/battery input priority
- On-grid: Compatible to utility grid or generator
- Off-grid: Uninterruptible power supply UPS / Island system
- WiFi/GPRS remote monitoring available
- Configurable charging parameter to fit different batteries
- Parallel connection available (3phase)
- Overload, short circuit and deep discharge protection
- Quality management, service and supply from Germany



Parallel connectable (3 phase)



Bottom View

Specifications

Model	PS-5000 48V
Monitoring	GPRS/WIFI
Battery Voltage	48 V
Rated Power	5000VA/ 5000W
Parallel Capability	Max. 6pcs (6 x 5KW = 30KW)
INVERTER OUTPUT	
AC Voltage Regulation (Battery Mode)	230VAC ± 5% 50/60Hz
Surge Power	10000VA
Efficiency (Peak)	93%
Waveform	Pure sine wave
Transfer Time (interruption-free)	10 ms (Personal Computers); 20 ms (Home Appliances)
MPPT SOLAR CHARGER	
Max. PV Power (Photon Solar Panels)	4500 Wp (4.5 KWp)
MPPT PV Input Range	60 Vdc~115 Vdc
Max. PV Open Circuit Voltage	145 Vdc
Max. Solar Charge Current	80A
Max. Efficiency	98%
Standby Power Consumption	2W
AC CHARGER	
Charge Current	60A
AC Input Voltage	230 Vac
Selectable Voltage Range	170-280 Vac (Personal Computers); 90-281 Vac (Home Appliances)
Frequency Range	50 Hz/60 Hz (Auto sensing)
PHYSICAL	
Dimension (Height x Width x Depth)	455 x 295 x 130 mm
Net Weight (kgs)	11.5
OPERATING ENVIRONMENT	
Humidity	5% to 95% Relative Humidity (Non-condensing)
Operating Temperature	0°C - 55°C
Storage Temperature	-15°C - 60°C

 **Optimal PV System Design - Completed PV Packages Supply from Photon Solar Germany** 

PS-5000 48V:

PV Panels: 15 x Photon Solar 280P - 280Wp poly crystalline – size: 1640 x 992 mm = 4,200 Wp (4.2 KWp)
PV Batteries (Lead Gel, AGM, Lead Carbon) in 48V sets: 4 x 12V200AH = 9.6 KWh