

CE

PHOTON SOLAR PS-3000 Series High Efficiency Off-grid Solar Inverter



The Photon Solar PS-3000 series high efficiency off-grid solar inverter is a powerful pure sine wave inverter with an integrated solar charger controller and UPS module in one.

Main Features

- Configurable AC/solar/battery input priority
- On-grid: Compatible to utility grid or generator
- Off-grid: Uninterruptible power supply UPS / Island system
- Communication port: USB
- Configurable charging parameter to fit different batteries
- Overload, short circuit and deep discharge protection
- Quality management, service and supply from Germany



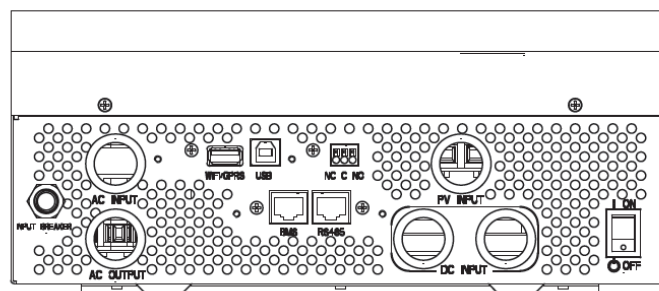
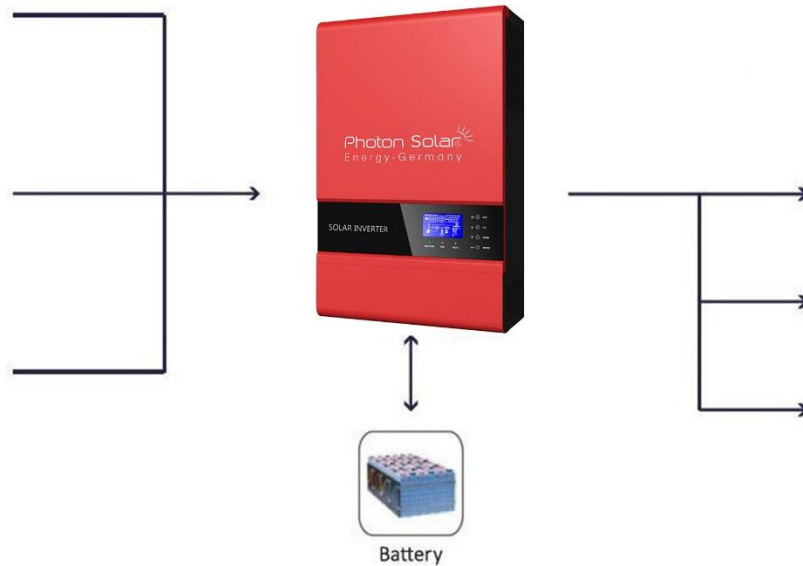
Solar Panel



Utility Grid



Generator



Bottom View

Specifications

Model	PS-3000 24V	PS-3000 48V
RATED POWER	3000VA/3000W	
Battery Voltage	24 V	48 V
Communication port (monitoring)	USB	
INVERTER OUTPUT		
AC Voltage Regulation (Battery Mode)	220/230/240 Vac	
Surge Power	6000VA	
Efficiency (Peak)	93%	
Transfer Time (interruption-free)	10 ms (Personal Computers); 20 ms (Home Appliances)	
Waveform	Pure sine wave	
PWM SOLAR CHARGER		
Max. PV Open Circuit Voltage	60 Vdc	90 Vdc
Max PV Power (Photon Solar Panels)	1500 Wp (1.5 KWp)	3000 Wp (3 KWp)
Standby Power Consumption	2W	
Max. Solar Charge Current	50A	
AC CHARGER		
Selectable Voltage Range	170-280 Vac (Personal Computers); 90-280 Vac (Home Appliances)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
Max. AC Charge Current	30A	15A
Max. Charge Current (PV+AC)	80A	65A
PHYSICAL		
Dimension (Height x Width x Depth)	380 x 265 x 120 mm	
Net Weight (kgs)	7.5	
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-3000 24V:

PV Panels: 5 x Photon Solar 280P - 280Wp poly crystalline – size: 1640 x 992 mm = 1,400 Wp (1.4 KWp)
PV Batteries (Lead Gel, AGM, Lead Carbon) in 24V sets: 2 x 12V100AH = 2.4KWh or 2 x 12V200AH = 4.8KWh

PS-3000 48V:

PV Panels: 10 x Photon Solar 280P - 280Wp poly crystalline – size: 1640 x 992 mm = 2,800 Wp (2.8 KWp)
PV Batteries (Lead Gel, AGM, Lead Carbon) in 48V sets: 4 x 12V200AH = 9.6 KWh