



High Frequency Off-grid Solar Inverter

POWERSOLAR SERIES(2KW-5.5KW)



ISO9001





HIGH FREQUENCY OFF GRID SOLAR INVERTER

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Product Introduction

Prostar PowerSolar series off-grid solar inverter is equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for charging the battery bank. Its comprehensive LCD display offers user-configurable and easy-accessible button operation such as battery charging current, AC/Solar charger priority, and acceptable input voltage based on different applications. PowerSolar transformerless design provides reliable power conversion in compact size. Besides, it's worry-free to start up motor-type loads such as refrigerators, motors, pumps, compressors and laser printers as well as electronic loads like TV, computers, power tool and battery chargers.

Product Features



Rated Power 2kw-5.5kw



Battery DC Voltage 24V/48V



Multi Protection



Wide AC Input 170~280V/90-280V



Auto Frequency Sensing 50Hz/60Hz

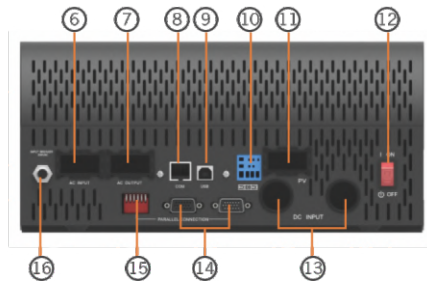


Battery Smart Charge Design

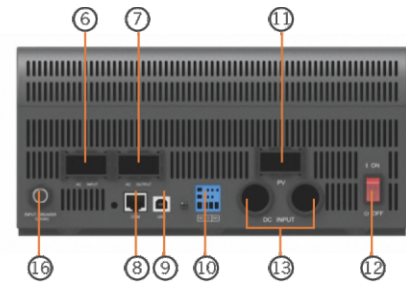
01. Pure sine wave inverter
02. Built-in 80A MPPT solar charge controller
03. Selectable input voltage range for home appliances and personal computers
04. Selectable charging current
05. High PV input voltage range
06. Configurable AC/solar input priority via LCD setting
07. Compatible to mains voltage or generator power
08. Auto restart while AC is recovering
09. Overload and short circuit protection
10. Smart battery charger design for optimized battery performance and extend battery lifecycle
11. Cold start function
12. WIFI remote monitoring (optional)
13. Parallel operation up to 3 units only available for 4KW/5KW/5.5KW (optional)
14. Built-in anti-dusk kit for harsh environment
15. Support USB, RS485 monitoring function with free CD

Product Details

POWERSOLAR SERIES(2KW-5.5KW)



(4KW-5.5KW)



(2KW-3KW)

- | | | | |
|----------------------|-----------------------------|-------------------------|---------------------------------|
| 1.LCD Display | 5.Funtion Buttons | 9.USB | 13. Battery Input |
| 2.Status Indicator | 6.AC Input | 10. Dry Contact | 14. Parallel Communication Port |
| 3.Charging Indicator | 7.AC Output | 11. PV Input | 15. Parallel Switch |
| 4.Fault Indicator | 8.RS-485 Communication Port | 12. Power On/Off Switch | 16. Circuit Breaker |

Anti-Dust Kit

After installing this anti-dust kit, inverter will automatically detect this kit and activate internal thermal sensor to adjust internal temperature. By virtue of the dustproof design, it dramatically increases product reliability in harsh environment.



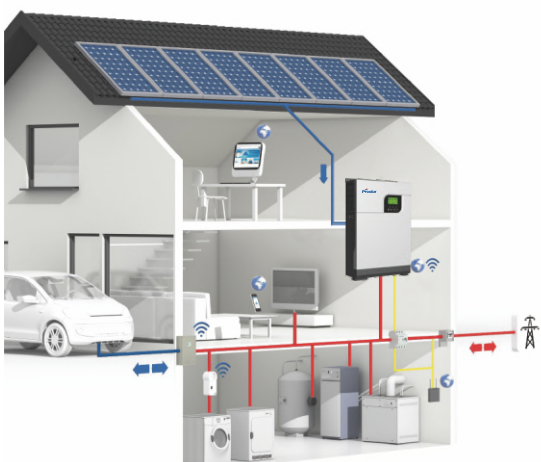
WIFI COMMUNICATION

You can download this app on your cellphone and monitor the whole system, you will know how much electricity the system generate.



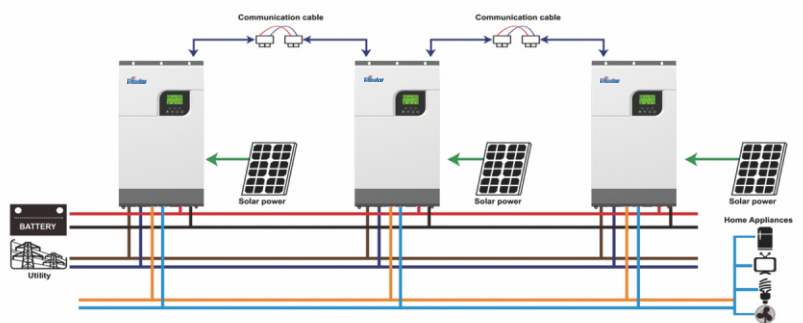
SOLAR INVERTER SYSTEM CONNECTION:

Power Inverter + Battery + Solar Panels + Grid + Appliaction Loads



ABILITY FOR PARALLEL OPERATION

The inverter is able to run in parallel operation mode to increase the capacity and reliability of the solar system. For higher reliability, parallel kits are adopted for inverters to communicate with each other. Up to 3 inverters can be installed together. Either single phase or three phases parallel operation is available.



Selection Guide

POWERSOLAR SERIES(2KW-5.5KW)

Model	PIS2K-24	PIS3K-24	PIS3K-48	PIS4K-48	PIS5K-48	PIS5K5-48
RATED POWER	2000W	3000W	3000W	4000W	5000W	5500W
Dimension DxWxH (mm)	100x272x355		125x298x468			
Net Weight (kgs)	10.00	11.00	13.30			
INPUT						
Voltage	220VAC/230VAC/240VAC					
Selectable Voltage Range	170-280 VAC (For Personal Computers)					
	90-280 VAC (For Home Appliances)					
Frequency Range	50 Hz/60 Hz (Auto sensing)					
OUTPUT						
AC Voltage Regulation (Batt. Mode)	220VAC/230VAC/240VAC ± 5%					
Surge Power	4000W	6000W	6000W	8000W	10000W	11000W
Frequency	50Hz/60Hz					
Efficiency (Peak)	93%					
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)					
Waveform	Pure sine wave					
BATTERY & AC CHARGER						
Battery Voltage	24 VDC		48 VDC			
Floating Charge Voltage	27 VDC		54 VDC			
Overcharge Protection	31VDC		62VDC			
SOLAR CHARGER & AC CHARGER						
Maximum PV Array Power	1560W/2080W		3120W/4160W			
MPPT Operating Voltage Range	30~130 VDC		64~130 VDC			
Maximum PV Array Open Circuit Voltage	145 VDC					
Maximum Solar Charge Current	60A/80A					
Maximum AC Charge Current	20A/30A		60A			
Maximum Charge Current	80A		140A			
OPERATING ENVIRONMENT						
IP Class	IP20					
Humidity	5% to 95% Relative Humidity(Non-condensing)					
Operating Temperature	0°C to 55°C					
Storage Temperature	-15°C to 60°C					

Product specifications are subject to change without further notice.

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www.Prostarpower.com

www.Prostar-cn.com

 WeChat



Website

