Prostar

Hybrid Bi-Directional Solar Inverter

MIXSOLAR SERIES(3KW-5KW)

ISO9001

HYBRID BI-DIRECTIONAL SOLAR INVERTER

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Product Introduction

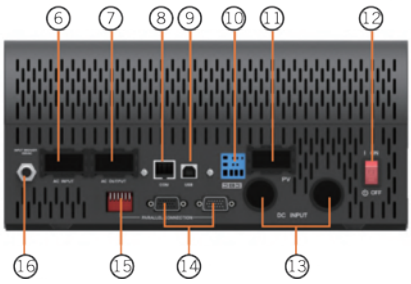
Prostar MixSolar series is a flexible and intelligent hybrid Bi-directional PV inverter which utilizes solar power, AC utility and battery power source to supply continuous power. It is a simple and smart solar power storage system for home users to either store energy into battery bank and wait for night-time usage or use for self-consumption first depending on demands. Priority for power source can be programmed and set up through smart software. During night time or power failure, it will automatically extract power from the battery bank. In this way, it will reduce dependence on the utility.

Product Features

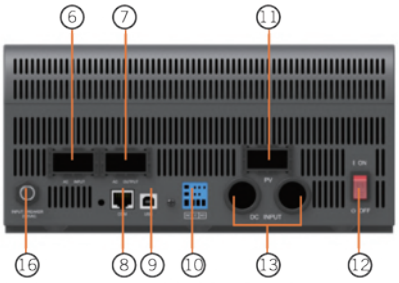
- Rated Power 3kw-5kw
- Battery DC Voltage 24V/48V
- High Frequency Above 93% High Efficiency
- Multi-Protection
- Wide AC input 90-280V
- MAX Charging Current 140A
- Lead-acid/Lithium Battery Optional
- WIFI Remote Monitoring

1. Advanced DSP control technology delivers accurate data pure sine wave output
2. Built-in MPPT solar charge controller
3. Self-consumption and Feed-in to the grid
4. Green substitution for generators
5. Programmable supply priority for PV, Battery or Grid
6. LCD display panel for comprehensive information
7. Multiple operation modes: Grid Tie, Stand-alone and Grid-Tie with back-up
8. User-adjustable battery charging current suits different types of batteries
9. Set up Zero feed in to the grid
10. Monitoring software & WIFI Kit for real-time status display and control
11. Built-in timer for various mode of on/off operation
12. Cold start function
13. Parallel operation with up to 3 units (optional)

Product Details

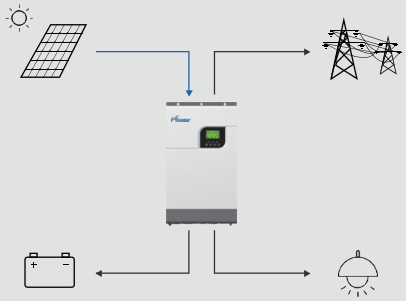


(4KW-5KW)



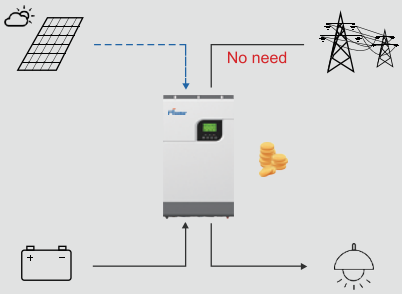
(3KW)

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



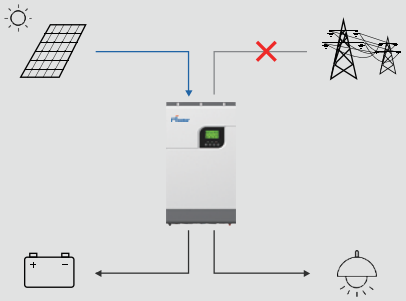
Feed-in is not only choice

In comparison with a conventional grid-tie inverter,it is able to not only feed-in power to the grid but also store solar power to the battery for future usage and directly power to the loads.



Save money by discharging battery for self-consumption first

MixSolar can save money by using battery energy first when PV energy is low. Until battery energy is low,MixSolar will extract AC power from the grid.

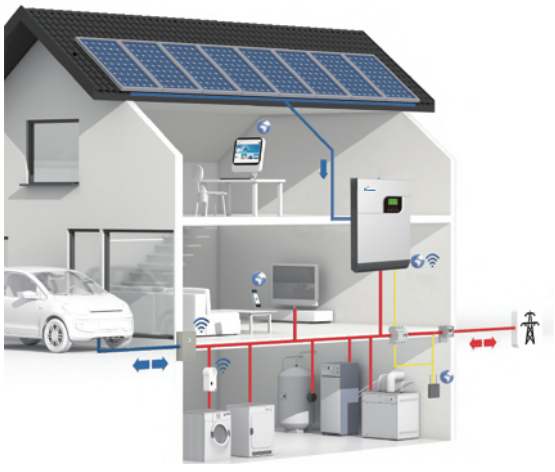


Power backup when AC failed

MixSolar can operate as an off-grid inverter to provide continuous power even without the grid.It' s a perfect power solution for remote regions or temporary AC power source such as camping or night market.

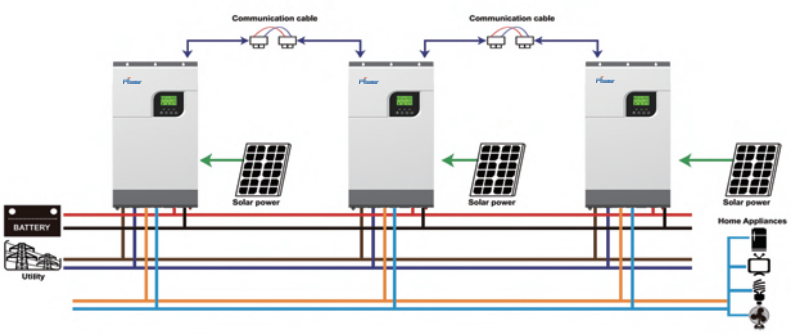
SOLAR INVERTER SYSTEM CONNECTION:

Power Inverter + Battery + Solar Panels + Grid + Applicaiton 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

MIXSOLAR SERIES(3KW-5KW)

Model	MIS3K-48	MIS4K-48	MIS5K-48
RATED POWER	3000W	4000W	5000W
Dimension DxWxH (mm)	125x298x468		
Net Weight (kgs)	14.00		
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	6000W	8000W	10000W
Nominal Output Current	13.0A	17.4A	21.7A
Efficiency (Peak)	93%		
Frequency	50Hz/60Hz		
Transfer Time	10 ms (For Personal Computers); 20 ms (For Home Appliances)		
Waveform	Pure sine wave		
BATTERY & AC CHARGER			
Battery Voltage	48 VDC		
Floating Charge Voltage	54.8 VDC		
Overcharge Protection	60VDC		
SOLAR CHARGER & AC CHARGER			
Maximum PV Array Power	4160W		
MPPT Operating Voltage Range	64~130 VDC		
Maximum PV Array Open Circuit Voltage	145 VDC		
Maximum Solar Charge Current	80A		
Maximum AC Charge Current	60A		
Maximum Charge Current	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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