



Hybrid Bi-Directional Solar Inverter

MIXSOLAR PLUS SERIES(9KW-12KW)



ISO9001



HYBRID BI-DIRECTIONAL SOLAR INVERTER

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Product Introduction

Prostar MixSolar Plus series is three phase, flexible and intelligent hybrid Bi-directional PV inverter which utilizes solar power, AC utility and battery power source to supply continuous power. It is built-in an isolation transformer, which supplies galvanic isolation not only to protect against electric shock between the ground and energized conductors, but also suppress electrical noise and are used for supplying power in sensitive devices like computers, refrigerator, air conditioner, medical devices and laboratory instruments. 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 user for self-consumption first depending on demands and feed excess power back into the grid.

Product Features



Rated Power 9kw-12kw



Battery Voltage 48VDC



Pure Copper transformer



Multi Protection



Wide AC input
95-272VAC per phase



MAX charging current
140A



Battery Optional

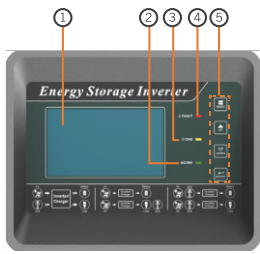


WIFI Remote Monitoring

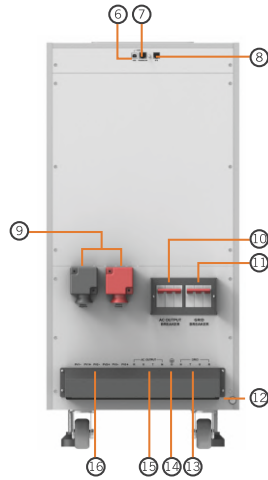
1. Pure sine wave output
2. Built-in 180A MPPT solar charge controller
3. Built-in isolation transformer
4. Self-consumption and Feed-in to the grid
5. Multiple operation modes: Grid Tie, Stand-alone and Grid-Tie with back-up
6. Programmable supply priority for PV, Battery or Grid
7. LCD display panel for comprehensive information
8. User-adjustable battery charging current suits different types of batteries
9. Green substitution for generators
10. Set up Zero feed in to the grid
11. WIFI/GPS for real-time status display and control
12. Cold start function
13. Parallel operation with up to 3 units (optional)

Product Details

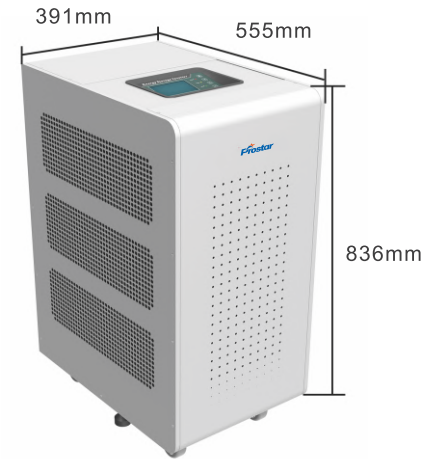
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1. LCD Display
2. Status Indicator
3. Charging Indicator
4. Fault Indicator
5. Function Buttons



6. USB Communication Port
7. CAN/RS485 Communication
8. BTS
9. Battery Input
10. AC Output Breaker
11. Grid Breaker
12. Grounding
13. AC Input
14. Grounding
15. AC Output
16. PV Input



INTRODUCTION

MixSolar Plus series Three-phase is a flexible and intelligent energy storage inverter which utilizes solar power, utility power, and battery power source to supply continuous power.

WIFI COMMUNICATION

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



SOLAR INVERTER SYSTEM CONNECTION:

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

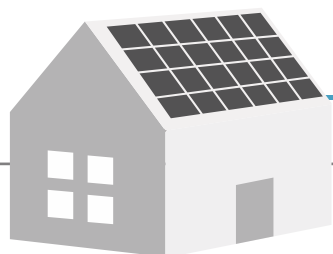
INVERTER SYSTEM CONNECTION

MixSolar Plus hybrid bi-directional solar inverter can save money by using battery energy first when PV energy is low. Until battery energy is low, will extract AC power from the grid.

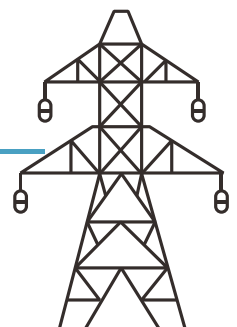
MixSolar Plus hybrid bi-directional solar inverter can operate as an off-grid inverter to provide continuous power even without the grid. It's perfect power solution for remote regions or temporary AC power source such as camping or flea market.



Home with solar panels



Grid



Model	MIS9K-48 Plus	MIS12K-48 Plus
PHASE	3-phase in/3-phase out	
RATED POWER	9KW	12KW
Dimension DxWxH (mm)	555x391x836	
Net Weight (kgs)	128.00	140.00
INPUT		
Voltage	220VAC/230VAC/240VAC (P-N) / 380VAC/400VAC/415VAC (P-P)	
Acceptable Voltage Range	186VAC - 253 VAC per phase (Default)	
	174VAC - 272VAC per phase (Narrow)	
	95VAC - 272VAC per phase (Wide)	
Frequency Range	50 Hz/60 Hz (Auto sensing)	
AC Maximum Current	26.0A per phase	34.8A per phase
OUTPUT		
Voltage	220VAC/230VAC/240VAC (P-N) / 380VAC/400VAC/415VAC (P-P)	
Frequency	50 Hz/60 Hz	
Surge Power	18KW	24KW
Nominal Output Current	13.0A per phase	17.4A per phase
Efficiency (Peak)	>93%	
Harmonic Distortion	Off grid <= 2%, Grid discharge <=3%, Grid charge <=3% @Liner Load	
Power Factor	0.9 lead - 0.9 lag	
Overload Capacity	<=110% 30mins; <=125% 1 mins; <=150% 30s; >150% 10s; Short circuit 5s	
Waveform	Pure sine wave	
BATTERY & AC CHARGER		
Battery Voltage	48 VDC	
Floating Charge Voltage	54.8 VDC	
Overcharge Protection	60VDC	
Low Voltage Protection Point	Charger: 34.0VDC; Inverter: 40.0VDC	
SOLAR CHARGER & AC CHARGER		
Maximum PV Array Power	10080W	
MPPT Operating Voltage Range	64~130 VDC	
Maximum PV Array Open Circuit Voltage	145 VDC	
Maximum Solar Charge Current	60A per phase	
Maximum AC Charge Current	60A per phase	80A per phase
Maximum Charge Current	120A per phase	140A per phase
MPPT Maximum Efficiency	98%	
OPERATING ENVIRONMENT		
IP Class	IP20	
Humidity	0 to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C to 55°C	
MANAGEMENT		
Communication Interface	RS-485/USB and CAN	
Optional SNMP	Power management from SNMP manager and web browser	

Product specifications are subject to change without further notice.

Guangdong Prostar New Energy Technology Co., Ltd.

www.Prostarpower.com

www.Prostar-cn.com



Website

