

PS Solar Inverter



Features:

- Pure sine wave inverter
- Built-in PWM solar charge controller
- Selectable input voltage range and frequency according to city power in your country
- Charging current is settable according to your battery type
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart charging system optimizes battery performance
- Cold start function



PS Inverter Selection Guide

MODEL	PS 1K	PS 2K	PS 3K	PS 4K	PS 5K
Rated Power	1000VA/800W	1000VA/1600W	3000VA/2400W	4000VA/3200W	5000VA/4000W
INPUT					
Voltage	230 VAC				
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)	230VAC ± 5%				
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA
Efficiency(Peak)	90%	93%			
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)				
Waveform	Pure sine wave				
BATTERY & AC CHARGER					
Battery Voltage	12 VDC	24 VDC	48 VDC		
Floating Charge Voltage	13.5 VDC	27 VDC	54 VDC		
Overcharge Protection	15 VDC	30 VDC	60 VDC		
Maximum Charge Current	10A or 20 A	20A or 30 A	20A or 30 A		
SOLAR CHARGER(OPTION)					
Charging Current	50A				
Maximum PV Array Open Circuit Voltage	50 VDC	60 VDC	105 VDC		
Standby Power Consumption	1 W	2 W	2 W		
PHYSICAL					
Dimension, D x W x H (mm)	305*300*110	305*272*100		413*295*120	
Net Weight (kgs)	4.5	6.4	6.9	9.8	9.8
OPERATING ENVIRONMENT					
Humidity	5% to 95% Relative Humidity(Non-condensing)				
Operating Temperature	0° C – 55° C				
Storage Temperature	-15° C – 60° C				

*Typical transfer time for parallel operation is 30ms.
Product specifications are subject to change without further notice.

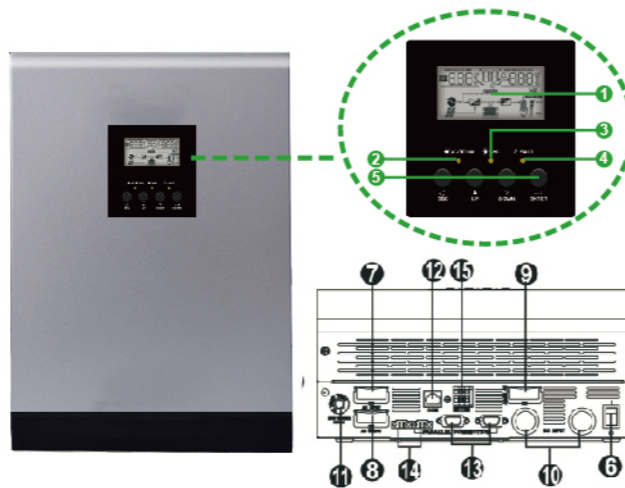
Introduction:

Equipped with PWM solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing, integrated interface system, it's light and handy, making installation easier. It's the ideal inverters for small PV plants, or individually for small houses, both indoors and outdoors.

Solar System Connection



LCD Display Information



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. Circuit breaker
12. RS232 communication port
13. Parallel communication cable (only for parallel model)
14. Current sharing cable (only for parallel model)
15. Dry contact
16. USB communication port



MPS Solar Inverter

Features:

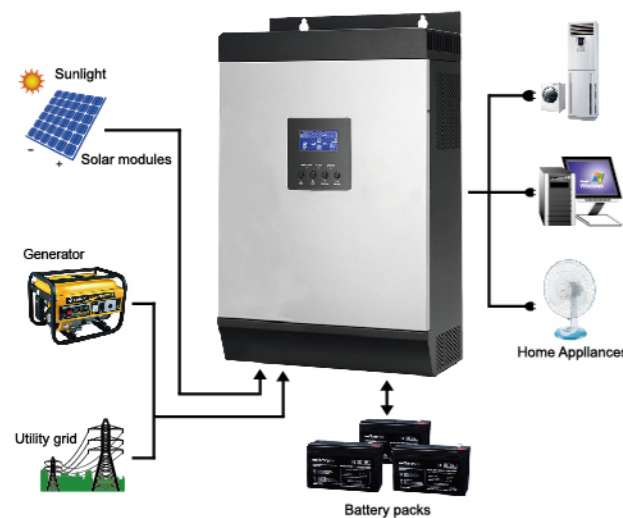
- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart battery charger design for optimized battery performance
- Cold start function
- Parallel operation with up to 9 units available for MKS 4K/5K



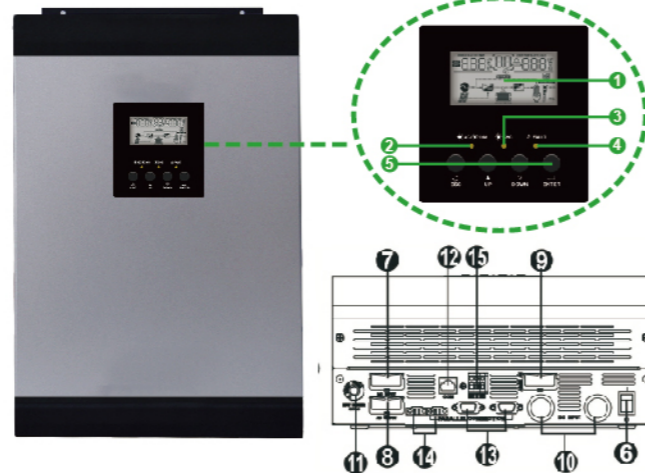
Introduction:

Equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for the charging the battery bank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing, integrated interface system, it's light and handy, making installation easier. It's the ideal inverter for small PV plants, or individually for small houses, both indoors and outdoors.

Solar System Connection



LCD Display Information



1. LCD display
2. Status indicator
3. Charging indicator
4. Fault indicator
5. Function buttons
6. Power on/off switch
7. AC input
8. AC output
9. PV input
10. Battery input
11. Circuit breaker
12. RS232 communication port
13. Parallel communication cable (only for parallel model)
14. Current sharing cable (only for parallel model)
15. Dry contact

Prowess MPS Inverter Selection Guide

MODEL	MPS 1K-24	MPS 2K-24	MKS 3K-24	MPS 4K	MPS 5K	
Rated Power	1000VA/800W	2000VA/1600W	3000VA/2400W	4000VA/3200W	5000VA/4000W	
INPUT						
Voltage	230 VAC					
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)	230VAC ± 5%					
Surge Power	2000VA	4000VA	6000VA	8000VA	10000VA	
Efficiency(Peak)	90% -93%	93%				
Transfer Time	10 ms (For Personal Computers) 20 ms (For Home Appliances)					
Waveform	Pure sine wave					
BATTERY & AC CHARGER						
Battery Voltage	24 VDC	24 VDC	24 VDC	48 VDC		
Floating Charge Voltage	27 VDC	27 VDC	27 VDC	54 VDC		
Overcharge Protection	31 VDC	31 VDC	31 VDC	60 VDC		
Maximum Charge Current	0 A or 10 A / 20 A*	20A or 30 A	20A or 30 A	20A or 30 A		
SOLAR CHARGER						
Maximum PV Array Power	600 W	600 W	600W	1500W	3000 W	
MPPT Range @ Operating Voltage	30VDC ~ 66VDC	30VDC ~ 66VDC	30VDC ~ 66VDC	60VDC ~ 115VDC	60VDC ~ 115VDC	
Maximum PV Array Open Circuit Voltage	75 VDC	75 VDC	75 VDC	145 VDC	145 VDC	
Maximum Charging Current	25A	25A	25A	60A	60A/80A	
Maximum Efficiency	98%					
Standby Power Consumption	2W					
PHYSICAL						
Dimension, D x W x H (mm)	128 x 272 x 355			140 x 295 x 540		
Net Weight (kgs)	7.4	7.6	8.0	10	12.5	13.5
OPERATING ENVIRONMENT						
Humidity	5% to 95% Relative Humidity(Non-condensing)					
Operating Temperature	0° C - 55° C					
Storage Temperature	-15° C - 60° C					

Product specifications are subject to change without further notice.

MODEL	MPS 1K-24	MPS 2K-24	MPS 3K-24		MPS 4K	MPS 5K
Inverter Power	800W	1600W	2400W		3200W	4000W
Pmax. generated from solar charger	25Amp 600W	25Amp 600W	25Amp 600W	60Amp 1500W	60Amp 3000W	80Amp 4000W
Best Panel Configuration	500Wp (250Wp x 2pcs)	500Wp (250Wp x 2pcs)	500Wp (250Wp x 2pcs)	1500Wp (250Wp x 6pcs)	3000Wp (250Wp x 12pcs)	3000Wp (250Wp x 16pcs)