

PS Series

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



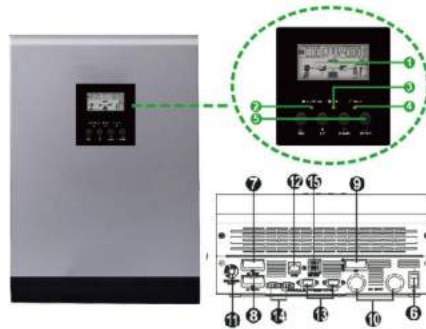
Introduction:

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

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.



MPS Series

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



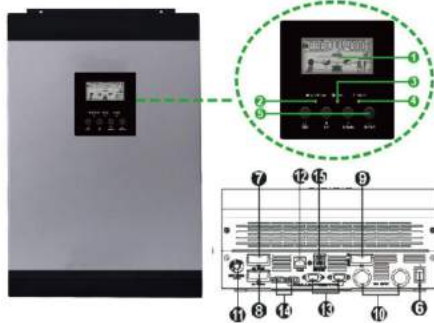
Introduction:

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 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

MPS Inverter Selection Guide

MODEL	MPS 1K-24	MPS 2K-24	MPS 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
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		4000W
Pmax. generated from solar charger	25Amp 600W	25Amp 600W	25Amp 600W	60Amp 1500W	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)

MPS-V Series



Introduction:

The MPS-V series all in one solar system is the perfect go-to solution for off-grid, backup power for homes, small business, and it also delivers a value added, easy to install system that provides efficient power globally for every need.

Features:

- High efficiency pure sine wave inverter (PF=1);
- Wide PV input range (120Vdc~500Vdc) 80A MPPT SCC; intelligent 3 stage 60A/80A AC charger.
- Surges to 2X continuous power for 5 seconds for motor loads.
- Intelligent functionality enables utility and solar input prioritization.
- Wide utility input range (90Vac~280Vac) for unreliable grid even
- In the most challenging environments.
- Field serviceable with replacement boards and spare parts.
- Monitor, troubleshoot, or communication with USB/RS232
- System configures quickly into compact, wall-mounted system.
- Working without batteries in sun day.



Solar System Connection



MPS All in one solar inverter

Model	MPS-V-3000-24	MPS-V-5000-48
RATED POWER	3200VA/3200W	5000VA/5000W
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	6000VA	10000VA
Efficiency (Peak) PV to INV.	97%	
Efficiency (Peak) Battery to INV.	94%	
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	33 VDC	63 VDC
Maximum Charge Current	80 A	60 A
SOLAR CHARGER		
Maximum PV Array Power	4000 W	
MPPT Range @ Operating Voltage	120 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum Charging Current	80A	
Maximum Efficiency	98%	
PHYSICAL		
Dimension, D x W x H (mm)	100 x 300 x 440	
Net Weight (kgs)	9	10
Communication interface	USB/RS232	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	