



MPS Solar Inverter

Features:

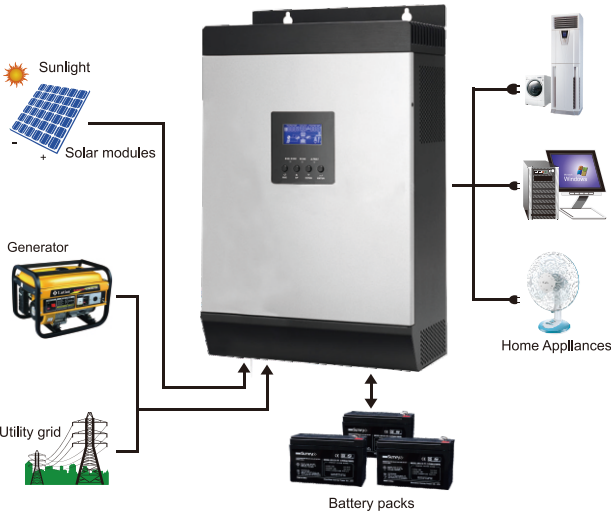
- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit 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



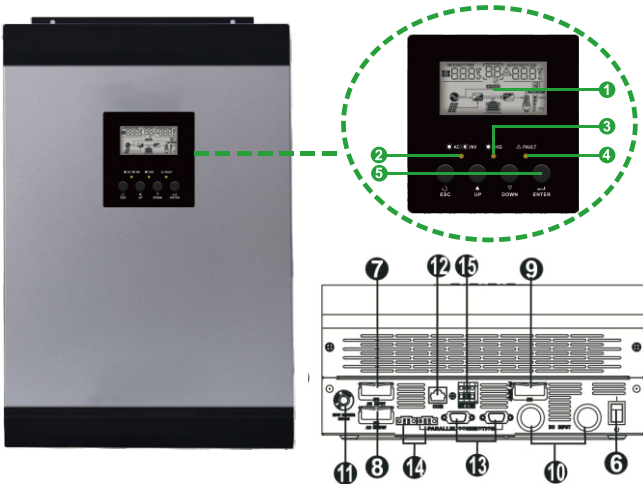
Introduction:

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 | 7. AC input |
| 2. Status indicator | 8. AC output |
| 3. Charging indicator | 9. PV input |
| 4. Fault indicator | 10. Battery input |
| 5. Function buttons | 11. Circuit breaker |
| 6. Power on/off switch | 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 3K-24		MPS 5K
Rated Power	1000VA/800W		3000VA/2400W		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	6000VA		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		48 VDC	
Floating Charge Voltage	27 VDC	27 VDC		54 VDC	
Overcharge Protection	31 VDC	31 VDC		60 VDC	
Maximum Charge Current	10 A/20 A	20A or 30 A		10A/20A/30A/40A/50A/60A	
SOLAR CHARGER					
Maximum PV Array Power	600 W	600W	1500W	3000 W	
MPPT Range @ Operating Voltage	30VDC ~ 66VDC	30VDC ~ 66VDC	30VDC ~ 115VDC	60VDC ~ 115VDC	
Maximum PV Array Open Circuit Voltage	75 VDC	75 VDC	145 VDC	145 VDC	
Maximum Charging Current	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	8.0	10	11.05/13.5	
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 3K-24		MPS 5K
Inverter Power	800W	2400W		4000W
Pmax. generated from solar charger	25Amp 600W	25Amp 600W	60Amp 1500W	60A/80Amp 3000W/4000W
Best Panel Configuration	500Wp (250Wp x 2pcs)	500Wp (250Wp x 2pcs)	1500Wp (250Wp x 6pcs)	3000Wp (250Wp x 16pcs)