



MPS Solar Inverter

Features:

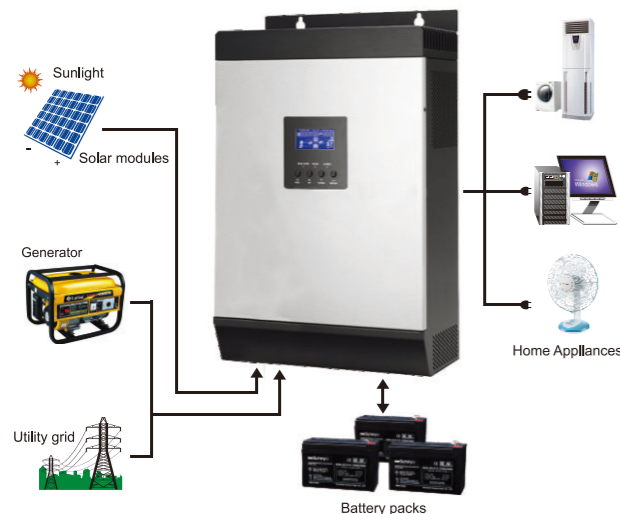
- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto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



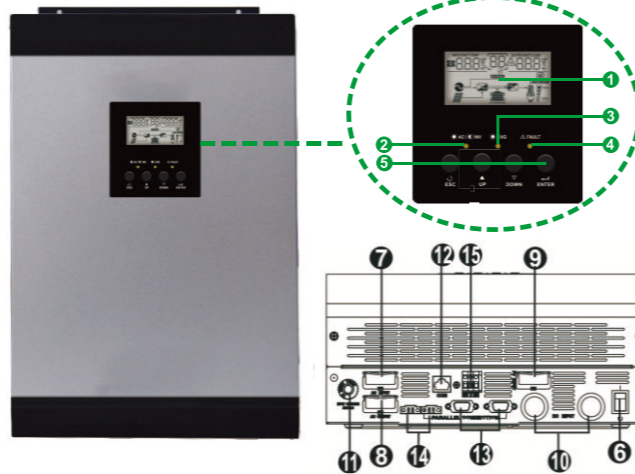
Introduction:

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 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 | 10A/20A | 20A or 30A | 10A/20A/30A/40A/50A/60A | |
| SOLAR CHARGER | | | | |
| Maximum PV Array Power | 600 W | 600W | 1500W | 3000W/4000W |
| 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 12pcs) |