

# ALL IN ONE SOLAR INVERTER MPS-V



### Introduction:

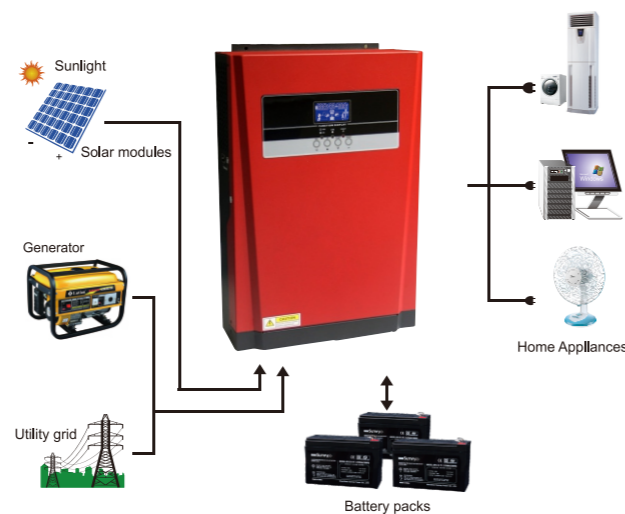
The MPS-V series all in one solar system is the perfect go-to solution for off-grid, backup power for homes, small business, and it also delivers a value added, easy to install system that provides efficient power globally for every need.

### 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.
- WIFI/GPRS Monitoring function (optional)



### Solar System Connection



### MPS All in one solar inverter

Model	MPS-V-3000-24	MPS-V-5000-48
RATED POWER	3200VA/3200W	5000VA/5000W
<b>INPUT</b>		
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)	
<b>OUTPUT</b>		
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	
<b>BATTERY &amp; AC CHARGER</b>		
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
<b>SOLAR CHARGER</b>		
Maximum PV Array Power	4000 W (5000W optional for 5KW model)	
MPPT Range @ Operating Voltage	120 ~ 450 VDC	
Maximum PV Array Open Circuit Voltage	500 VDC	
Maximum Charging Current	80A	
Maximum Efficiency	98%	
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	100 x 300 x 440	
Net Weight (kgs)	9	10
Communication interface	USB/RS232	
Monitoring	WIFI/GPRS (optional)	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	