



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

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



Solar System Connection



Technical Parameter

MPS-V-series

Model	VMS-3K-24	VMS-5K-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	
Monitoring	WIFI/GPRS (optional)	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity (Non-condensing)	
Operating Temperature	0°C - 55°C	
Storage Temperature	-15°C - 60°C	