



# Sunpal MPS Solar Inverter

MPS 1K-24 / 3K-24 / 5K-48

- Pure sine wave inverter.
- Built-in MPPT solar charge controller.
- Selectable input voltage range and frequency.
- Charging current is settable according to 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.
- Cold start function.



PC



TV



FM Radio



Electric Fan

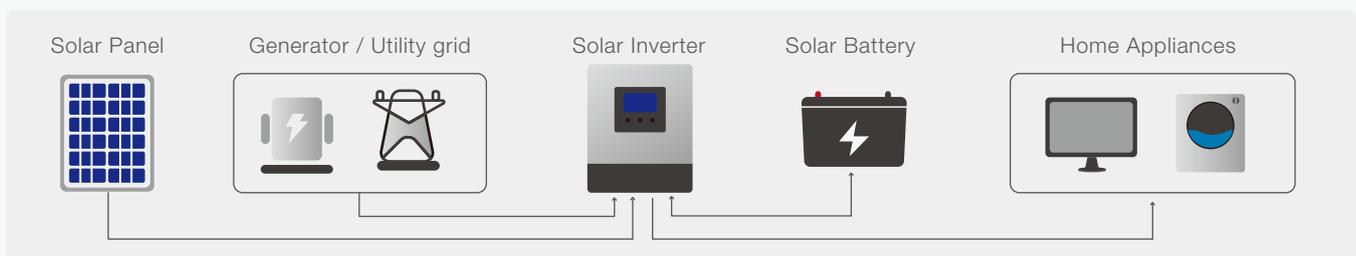


Solar Power

## Introduction

Sunpal MPS is equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for charging the battery bank. Transformerless design provides reliable power conversion in compact size. Besides, it's worry-free to start up motor-type loads such as refrigerators, motors, pumps, compressors and laser printers as well as electronic loads like TVs, Computers, power tool and battery chargers.

## Solar System Connection



## MPS Inverter Selection Guide

MODEL	MPS 1K-24	MPS 3K-24	MPS 5K-48	
Rated Power	1000VA/800W	3000VA/2400W	5000VA/4000W	
<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	2000VA	6000VA	10000VA	
Efficiency(Peak)	90%-93%	93%		
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	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	
<b>SOLAR CHARGER</b>				
Maximum PV Array Power	600W	600W	1500W	3000W/4000W
MPPT Range @ Open Circuit Voltage	30VDC~66VDC	30VDC~66VDC	30VDC~115VDC	60VDC~115VDC
Maximum PV Array Open Circuit Voltage	75VDC	75VDC	145VDC	145 VDC
Maximum Charging Current	25A	25A	60A	60A / 80A
Maximum Efficiency	98%			
Standby Power Consumption	2W			
<b>PHYSICAL</b>				
Dimension, D×W×H (mm)	128×272×355		140×295×540	
Net Weight (kgs)	7.4	8.0	10	11.05 / 13.5
<b>OPERATING ENVIRONMENT</b>				
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.



Sunpal Power Co., Ltd.  
Office Address: West Changjiang Road, Shushan District, Hefei City, Anhui Province, China.  
Phone: +86 551 6586 5992 Email: info@sunpalpower.com Web: www.sunpalpower.com

