



**COURTOIS  
ENERGY**

# MPS Solar Inverter

## Features:

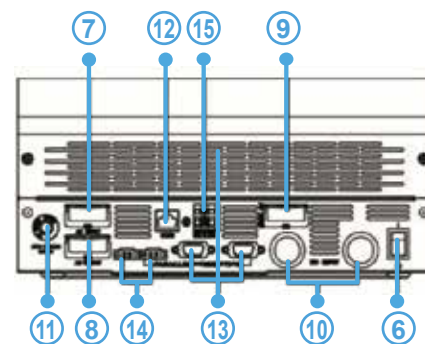
- Pure sine wave inverter
- Built-in MPPT solar charge controller
- Selectable input voltage range for home appliances and personal computers
- Selectable charging current based on applications
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto 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 onits available for MKS 5K



## Introduction:

Equipped with MPPT solar charge controller to maximize and regulate DC power from the solar array for the charging the batterybank. Transformer-less design provides reliable power conversion in compact size and with high efficiency. With aluminum housing, Integrated interface system, its light and handy, making installation easier. It's the ideal inverters for small PV plants, or individually for small houses, both indoors and outdoors.

## LCD Display Information



## Solar System Connection



1	LCD display	6	Power on/off switch	11	Circuit breaker
2	Status indicator	7	AC input	12	RS232 communication port
3	Charging indicator	8	AC output	13	Parallel communication cable (only for parallel model)
4	Fault indicator	9	PV input	14	Current sharing cable (only for parallel model)
5	Function buttons	10	Battery input	15	Dry contact

MARQUE FRANÇAISE



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# Off-Grid Inverter

## MPS Inverter Selection Guide

MODEL	MPS 1K-24	MPS 3K-24	MPS 5K	
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	24VDC	24VDC	48VDC	
Floating Charge Voltage	27VDC	27VDC	54VDC	
Overcharge Protection	31VDC	31VDC	60VDC	
Maximum Charge Current	10A/20A	20Aor30A	10A/20A/30A/40A/50A/60A	
<b>SOLARCHARGER</b>				
Maximum PV Array Power	600W	600W	1500W	3000W/4000W
MPPT Range @ Operating Voltage	30VDC~66VDC	30VDC~66VDC	30VDC~115VDC	60VDC~115VDC
Maximum PV Array Open Circuit Voltage	75VDC	75VDC	145VDC	145VDC
Maximum Charging Current	25A	40A	60A	80A
Maximum Efficiency	98%			
Standby Power Consumption	2W			
<b>PHYSICAL</b>				
Dimension, D x W x H (mm)	128x272x355		140x295x540	
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.**

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 (250Wpx2pcs)	500Wp (250Wpx2pcs)	1500Wp (250Wpx2pcs)	3000Wp (250Wpx16pcs)