



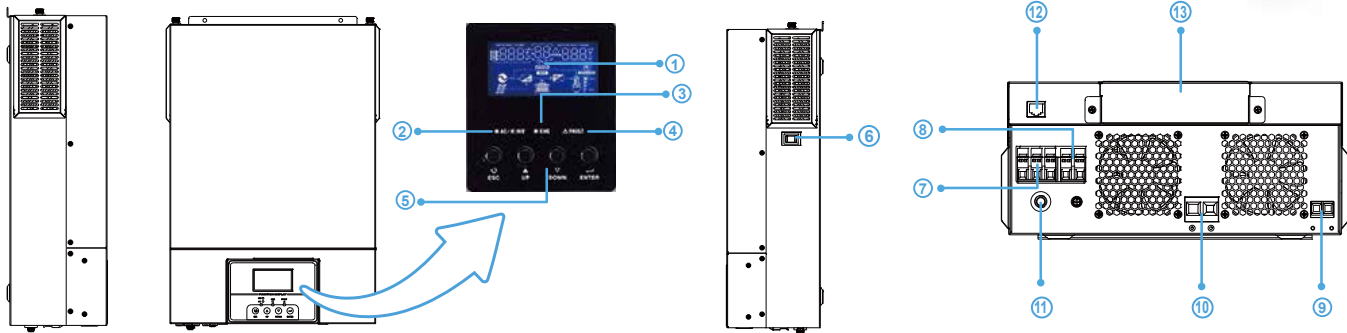
# MPS-V PLUS SERIES

## Features:

- Pure sine wave solar inverter
- Output power factor 1.0
- Wifi&GPRS available for IOS and android
- Inverter running without battery
- Built-in 100A MPPT solar charger
- High PV input voltage range(120~500VDC)
- Built-in anti-dust kit for harsh environment
- Smart battery charge design to optimize battery life



## LCD Display Information

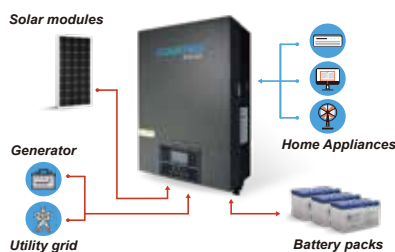


1	LCD display	2	Status indicator	3	Charging indicator	4	Fault indicator	5	Function buttons
6	Power on/off switch	7	AC input	8	AC output	9	PV input	10	Battery input
11	Circuit breaker	12	RS-232 communication port (WIFI /GPRS/ Removable box)		13	Removable box			

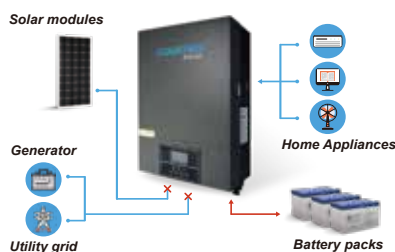
## System Diagram

- Operation with battery connected

1. Solar Power and AC Power available

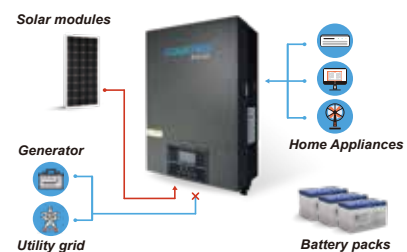


2. Solar Power and AC Power not available

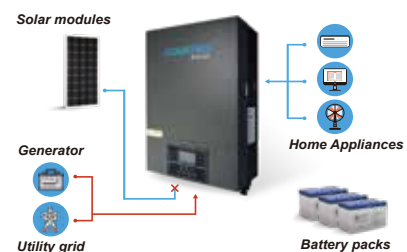


- Operation without battery connected

3. Solar Power available



4. AC Power available



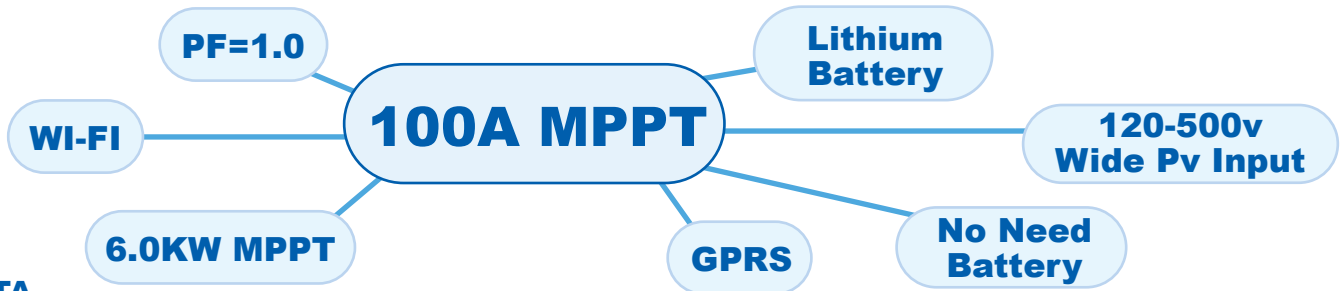


**COURTOIS  
ENERGY**

# Off-Grid Inverter

MPS-V PLUS All in one solar inverter

## KEY FEATURES



## TECHNICAL DATA

MODEL	MPS-V-3500W-PLUS	MPS-V-5500W-PLUS
Rated Power	3500VA/3500W	5500VA/5500W
<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 $\pm$ 5%	
Surge Power	7000VA	11000VA
Efficiency (Peak) PV to INV	97%	
Efficiency (Peak) Battery to INV	94%	
Transfer Time	10 ms (For Personal Computers)	20 ms (For Home Appliances)
<b>BATTERY &amp; AC CHARGER</b>		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum Charge Current	80A	80A
<b>SOLARCHARGER</b>		
Maximum PV Array Power	5000W	6000W
MPPT Range @ Operating Voltage	120~450 VDC	
Maximum PV Array Open Circuit Voltage	500VDC	
Maximum Charging Current	100A	100A
Maximum Efficiency	98%	
<b>PHYSICAL</b>		
Dimension, D x W x H (mm)	100x300x440	
Net Weight (kgs)	11	12
Communication interface	USB/RS232/GPRS/WIFI	
<b>OPERATING ENVIRONMENT</b>		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0° C~55° C	
Storage Temperature	-15° C~60° C	