



**COURTOIS
ENERGY**

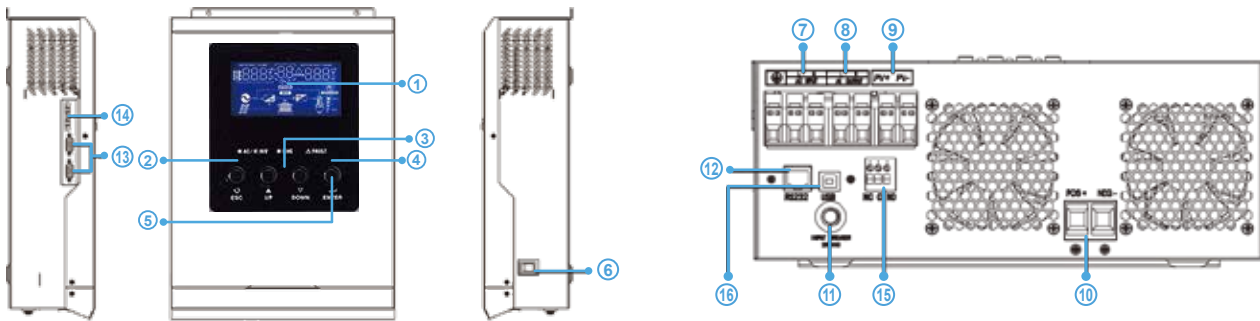
MPS-V PLUS SERIES

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



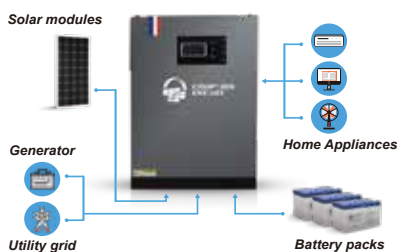
LCD Display Information



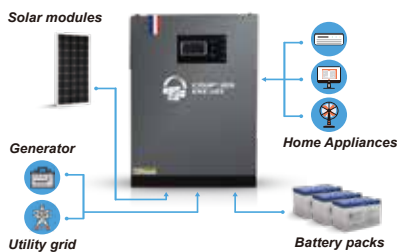
1	LCD display	2	Status indicator	3	Charging indicator	4	Fault indicator	5	Function buttons	6	Power on/off switch
7	AC input	8	AC output	9	PV input	10	Battery input	11	Circuit breaker	12	RS232 communication port
13	Parallel communication cable (only for parallel model)	14	Current sharing cable (only for parallel model)	15	Dry contact	16	USB communication port				

System Diagram

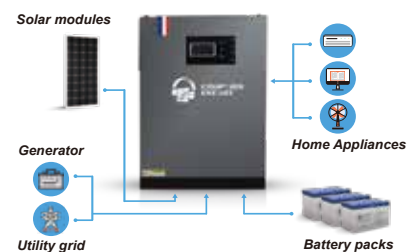
■ Operation with battery connected Solar Power and AC Power available



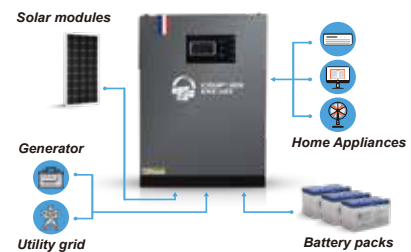
Solar Power and AC Power available



■ Operation with battery connected Solar Power and AC Power available



Solar Power and AC Power available



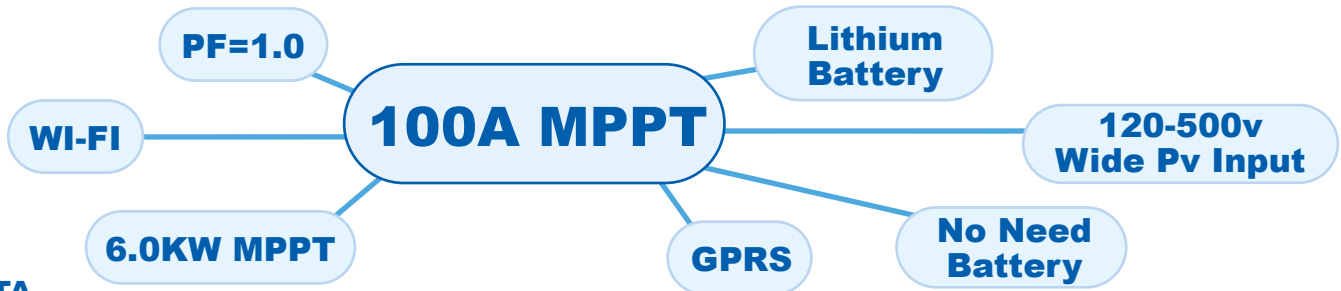


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Off-Grid Inverter

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
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 \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)
BATTERY & AC CHARGER		
Battery Voltage	24VDC	48VDC
Floating Charge Voltage	27VDC	54VDC
Overcharge Protection	33VDC	63VDC
Maximum Charge Current	80A	80A
SOLARCHARGER		
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%	
PHYSICAL		
Dimension, D x W x H (mm)	100x300x440	
Net Weight (kgs)	11	12
Communication interface	USB/RS232/GPRS/WIFI	
OPERATING ENVIRONMENT		
Humidity	5% to 95% Relative Humidity(Non-condensing)	
Operating Temperature	0° C~55° C	
Storage Temperature	-15° C~60° C	