



**COURTOIS
ENERGY**

PS Solar Inverter

Features:

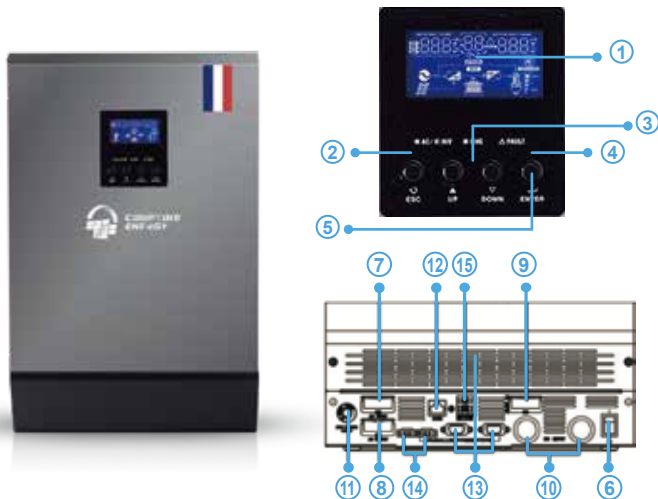
- Pure sine wave inverter
- Built-in PWM solar charge controller
- Selectable input voltage range and frequency according to city power in your country
- Charging current is settable according to your battery type
- Configurable AC/Solar input priority via LCD setting
- Compatible to mains voltage or generator power
- Auto restart while AC is recovering
- Overload and short circuit protection
- Smart charging system optimizes battery performance
- Cold start function



Introduction:

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

LCD Display Information



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
16	USB communication port				

Solar System Connection





MODEL	PS 1K	PS 3K	PS 5K
Rated Power	1000VA/800W	3000VA/2400W	5000VA/4000W
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	2000VA	6000VA	10000VA
Efficiency(Peak)	90%	93%	
Transfer Time	10 ms (For Personal Computers)		20 ms (For Home Appliances)
Waveform	Pure sine wave		
BATTERY & AC CHARGER			
Battery Voltage	12VDC	24VDC	48VDC
Floating Charge Voltage	13.5VDC	27VDC	54VDC
Overcharge Protection	15VDC	30VDC	60VDC
Maximum Charge Current	10Aor20A	20Aor30A	10A/20A/30A/40A/50A/60A
SOLAR CHARGER(OPTION)			
Charging Current	50A		
Maximum PV Array Open Circuit Voltage	40VDC	80VDC	105VDC
PV Range @ Operating Voltage	15/8VDC	30~32VDC	60~72VDC
Standby Power Consumption	1W	2W	2W
PHYSICAL			
Dimension, D x W x H (mm)	305*300*110	305*272*100	413*295*120
Net Weight (kgs)	4.5	6.9	9.8
OPERATING ENVIRONMENT			
Humidity	5% to 95% Relative Humidity(Non-condensing)		
Operating Temperature	0° C-55° C		
Storage Temperature	-15° C-60° C		

*Typical transfer time for parallel operation is 30ms.

Product specifications are subject to change without further notice.