

# 500W Pure Sine Wave Inverter KP500 series




## Overview

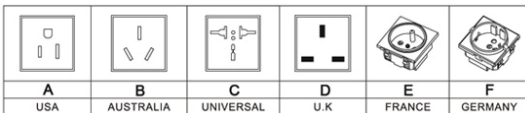
The 500w pure sine wave inverter convert battery power into AC household power, allow you to run loads up to 500Watts.

## Features&Benefits:

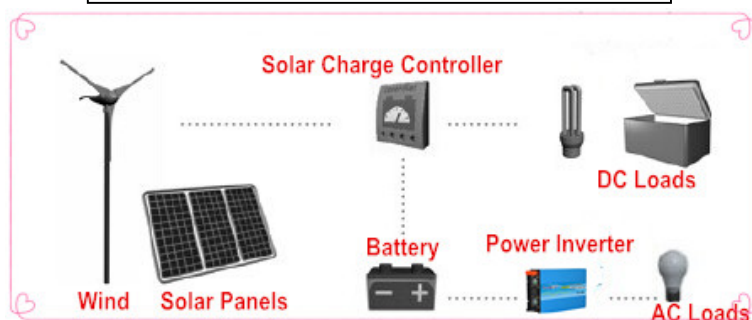
- Rated power:500W
- Peak power:750W for 10sec,1000w for 2sec
- Pure sine wave output
- USB port for charging USB devices
- Remote control(Optional)
- Protection: Input reverse polarity/Bat. Low shutdown/Over voltage/Over load/Over temperature/Output short
- Variable speed fan controlled by temperature and load
- One year warranty

## Specification

Items	KP500-112	KP500-124	KP500-148	KP500-212	KP500-224	KP500-248
<b>Electrical Specifications</b>						
Continuous Output Power	500W	500W	500W	500W	500W	500W
Maximum Power(10sec)	750W	750W	750W	750W	750W	750W
Output Power Surge(2sec)	1000W	1000W	1000W	1000W	1000W	1000W
Output Voltage/Frequency	110V,115V,120V/60Hz			220V,230V,240V/50Hz		
Output Mode	Single Phase					
Output Waveform/Distortion	 Pure Sine Wave, THD≤ 4%					
Efficiency	88%	89%	90%	88%	89%	90%
No Load Current Draw	0.44A	0.22A	0.11A	0.44A	0.22A	0.11A
Input Voltage	12V	24V	48V	12V	24V	48V
Input Voltage Range	10.8– 15.5V	21.6– 31V	43.2– 62V	10.8– 15.5V	21.6– 31V	43.2– 62V
Low battery voltage alarm	10.8±0.2V	21.6±0.4V	43.2±0.8V	10.8±0.2V	21.6±0.4V	43.2±0.8V
Low battery voltage shutdown	10.2±0.2V	20.4±0.4V	40.8±0.8V	10.2±0.2V	20.4±0.4V	40.8±0.8V
High battery voltage shutdown	15.5±0.2V	31±0.4V	62±0.8V	15.5±0.2V	31±0.4V	62±0.8V
Overload protection	Shut down o/p voltage, re-power on to recover					
Over Temperature Shutdown	≥45°C or ≥40% rated power, cooling fan open;≥75°C,Shut off.					
Reverse polarity protection	By external fuse open					
Out Short circuit Shut-down	Protection type : Shut down o/p voltage, re-power on to recover					
<b>General Specifications</b>						
Working Temp, Humidity	-40°C to +45°C, 0% ~ 90% RH non-condensing					
Storage Temp, Humidity	30°C~ +70°C/ -22 ~ +158°F, 10% ~ 95% RH					
5V,500mA/5V,1A USB	Optional	Optional	N/A	Optional	Optional	N/A
Remote Control Switch	Yes	Yes	Yes	Yes	Yes	Yes

AC Output Receptacle	
Cooling fans (thermostatic)	1 Fan
Housing	Blue/Black or customized Aluminium
Ground Chassis	Properly grounds the Inverter to vehicle grounding system or to earth ground.
<b>Variable speed fan controlled by temperature and load</b>	
Fan don't run	Load<40% or inner temperature less than 30°C,
Fan's rotational speed is 40%	40%≤Load<60%
Fan's rotational speed is 60%	60%≤Load<80%
Fan's rotational speed is 80%	80%≤Load<100%
Fan's rotational speed is 100%	100%≤Load or Inner temperature is more than 45°C
<b>Buzzer/LED</b>	
Low Battery Alarm	●-●-○-○-○-○-○-○ Buzzer sound 2times and Red light blink 2times every 8sec.
Low Battery Shutdown	●-●-●-○-○-○-○-○ Buzzer sound 3times and Red light blink 3times every 8sec.
Over Voltage Shutdown	●-●-●-●-○-○-○-○ Buzzer sound 4times and Red light blink 4times every 8sec.
Over temperature Shutdown	●-●-●-●-●-○-○-○ Buzzer sound 5times and Red light blink 5times every 8sec.
Short Circuit/Overload Shutdown	●-●-●-●-●-●-●-● Red light blink constantly
<b>Mechanical Specification</b>	
Unit Dimension/Weight	21*15*7cm(L*W*H),2.1KGS
Master Carton	42*34*45cm(L*W*H),15KGS,6piece/CTN
Certificates	CE-EMC,CE-LVD, RoHS
<b>Accessories</b>	
Battery Cable	1x Positive & 1x Negative Terminal to Terminal Connection Cable
Manual	1x Instruction/Specification Booklet
Fuse	4x Replaceable fuse

### How Power Inverter Works



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