

2500W Pure Sine Wave Inverter/Charger KPC2500 series




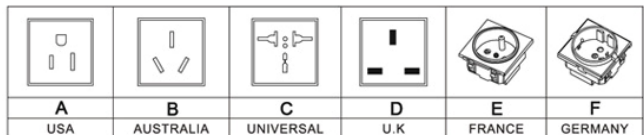
Overview

The KPC2500 series Inverter/Charger offers a complete power conversion system—DC to AC, battery charging, and an AC Transfer Switch—and can be used for stand-alone or back-up applications.

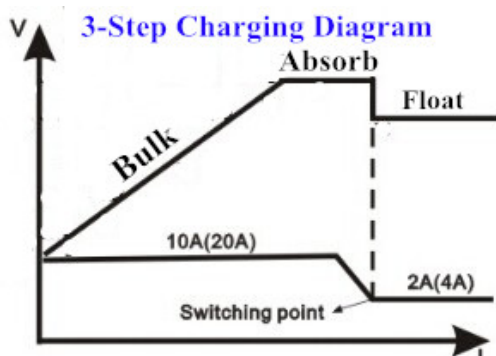
Features&Benefits:

- Rated power:2500W
- Peak power:3750W for 10sec,5000w for 2sec
- Pure sine wave output
- Battery charger current 10A Max
- Protection: Input reverse polarity/Bat. Low shutdown/Over voltage/Over load/Over temperature/Output short
- Variable speed fan controlled by temperature and load
- 3-Stage battery charge
- One year warranty

Specification:

Items		KPC2500-112	KPC2500-124	KPC2500-212	KPC2500-224
Inverter	AC Voltage	100V/110V/115V/120V		220V/230V/240V	
	Continuous Power	2500W	2500W	2500W	2500W
	Surge Power(10sec)	3750W	3750W	3750W	3750W
	Peak Power(2sec)	5000W	5000W	5000W	5000W
	Output Waveform/Distortion	 Pure Sine Wave, THD≤ 4%			
	Frequency	60Hz+/-1Hz		50Hz+/-1Hz	
	Efficiency	88%	89%	88%	89%
	No Load Current Draw	0.72A	0.36A	0.72A	0.36A
	DC Input Voltage	12V	24V	12V	24V
	Input Voltage Range	10.8– 15.5V	21.6– 31V	10.8– 15.5V	21.6– 31V
	Low Battery Voltage Alarm	10.8±0.2V	21.6±0.4V	10.8±0.2V	21.6±0.4V
	Low Battery Voltage Shutdown	10.2±0.2V	20.4±0.4V	10.2±0.2V	20.4±0.4V
	High Battery Voltage Shutdown	15.5±0.2V	31±0.4V	15.5±0.2V	31±0.4V
AC Output Receptacle					
Charger	Max Charging Current	10A	5A	10A	5A
	Charge Voltage(Absorb Charging)	14.6V	29.2V	14.6V	29.2V
	Charge Voltage(Float Charging)	13.8V	27.6V	13.8V	27.6V
	AC Input Voltage	90V-120V		180V-260V	
	Frequency	45Hz-65Hz			
	Charging Type	3-step charging: Bulk/Absorb/Float charging			
	Transfer time(Utility-to-Battery)	<16ms			

	Recommended Battery Type	Lead Acid
	Recommended Battery Size	40AH—200AH
Protection	Overload Shutdown	Shut down o/p voltage, re-power on to recover
	Over Temperature Shut down	$\geq 45^{\circ}\text{C}$ or $\geq 40\%$ rated power, cooling fan open; $\geq 75^{\circ}\text{C}$, Shut off.
	Short Circuit Protection	Shut down o/p voltage, re-power on to recover
	Reverse Polarity Protection	By external fuse open
General	LED Indicator	Inverter, Charging, Fully charged, Fault
	Cooling Fan	Temperature and Load controlled variable speed fans
	USB:5V,500mA/1000mA	Yes
	Remote Control	Yes
	Casing	Blue/Black or customized Aluminium
	Ground Chassis	Properly grounds to vehicle grounding system or to earth ground.
	Hardwire Terminal Block	Direct connect terminal block
Variable speed fan controlled by temperature and load	Fan don't run	Load $<40\%$ or inner temperature less than 30°C ,
	Fan's rotational speed is 40%	$40\% \leq \text{Load} < 60\%$
	Fan's rotational speed is 60%	$60\% \leq \text{Load} < 80\%$
	Fan's rotational speed is 80%	$80\% \leq \text{Load} < 100\%$
	Fan's rotational speed is 100%	$100\% \leq \text{Load}$ or Inner temperature is more than 45°C
Buzzer/LED	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
Environment	Working Temp, Humidity	-40°C to $+45^{\circ}\text{C}$, 0% ~ 90% RH non-condensing
	Storage Temp, Humidity	$30^{\circ}\text{C} \sim +70^{\circ}\text{C}$ / $-22 \sim +158^{\circ}\text{F}$, 10% ~ 95% RH
Mechanical	Unit Dimension/Weight	38*22*15cm(L*W*H),8.5KGS
	Master Carton	55*35*26cm(L*W*H),11KGS,1piece/CTN
	Certificates	CE-LVD,CE-EMC,RoHS
Accessories	Battery Cable	2x Positive & 2x Negative Terminal to Terminal Connection Cable
	Manual	1x Instruction/Specification Booklet
	Fuse	10x Replaceable fuse



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