

## Datasheet inverter 2500W

KOSUN power invert 2500W pure sine wave inverter with charger work with soft start function which is beneficial for the devices on a safety operation mode. The protection feature(12V input inverter sample):

Input low voltage protection: when the battery voltage is below 10.5±0.5V buzzer sound 2 times which indicates DC power supply voltage is descending and batteries need to recharge;

when input voltage is below 10.0±0.5V, buzzer sound 3 times and red light turn on, AC output will be automatically shut off.

Input over voltage protection: when input voltage reach 16.0v±0.5v, buzzer sound 4 times and red light turn on, the AC output will be shut off automatically;

Short Circuit protection: when short circuit occur, buzzer sound 11 times and red light turn on, output will be shut off;

Over load protection: when overloads occur, buzzer constantly sound and red light turn on, output will be shut off.

Reverse polarity protection: when battery terminals are reverse connected, the inverter won't work until the correct connect.

Over temperature protection: when heat sink temperature exceeds 45°C, the inner cooling fan will automatically turn on to cool the inverter; when inner temperature exceeds 75°C, buzzer sound 5 times and red light turn on, AC output will automatically shut off. AC charger protections(optional). Over charging protection, short circuit protection, over temperature protection, reverse polarity protection.

### Product parameter(Specification) of the 2500W pure sine wave inverter with charger

New Series Pure Sine wave Inverter with charger

★★★★★ Highly recommended products



- Pure sine wave output (THD<3%);
- High surge power up to 2 times of real loading power;
- Loading 1.5times rated power for 10s, 2times for 2s;
- High efficiency up to 92%;
- Power ON-OFF switch;
- Soft start;
- Built-in fuse;
- More stable working functions with TP56 safety terminals
- Front panel indicator for operation status;
- Thermostatically and load controlled cooling fan;
- Protections:Bat. low alarm/Bat. low shutdown/Bat. over shutdown/output short/input reverse protection/overload/over Temp.

MODEL		RSC2500P-112	RSC2500P-124	RSC2500P-148	RSC2500P-212	RSC2500P-224	RSC2500P-248		
<b>OUTPUT</b>	RATED POWER	2500W							
	SURGE POWER	5000W							
	AC VOLTAGE	Factory setting set at 100V/110V/120V AC				Factory setting set at 220V/230V/240V AC			
	FREQUENCY	50Hz/60Hz optional							
	WAVE FORM	Pure sine wave (THD<3%) at rated input voltage							
	AC REGULATION	±10%							
	STANDARD RECEPTACLES	Schuko/UK/Australia/Universal/USA/France/JP/Brazile							
	FRONT PANEL INDICATOR	Operation and fault status							
<b>INPUT</b>	BAT.VOLTAGE	12V	24V	48V	12V	24V	48V		
	VOLTAGE RANGE	9.8-16.2VDC	19.7-32.3VDC	39.5-63.5VDC	9.8-16.2VDC	19.7-32.3VDC	39.5-63.5VDC		
	DC CURRENT	250A	125A	62.5A	250A	125A	62.5A		
	NO LOAD CURRENT DRAW	<1.1A	<0.98A	<0.77A	<1.1A	<0.98A	<0.77A		
	EFFICIENCY	89% >90%		92%		88%		90% 91%	
	BATTERY TYPES	Recommend use Open & sealed lead acid battery							
<b>BATTERY INPUT PROTECTION</b>	BAT.LOW ALARM	10.5±0.2V	21±0.3V	42±0.5V	10.5±0.2V	21±0.3V	42±0.5V		
	BAT.LOW SHUTDOWN	10.2±0.2V	20±0.3V	40±0.5V	10.2±0.2V	20±0.3V	40±0.5V		
	BAT.OVER SHUTDOWN	16±0.2V	32±0.3V	64±0.5V	16±0.2V	32±0.3V	64±0.5V		
	REVERSE POLARITY	yes							
<b>AC INPUT</b>	Nominal voltage/Frequency	115V/60Hz			230V/50Hz				
	Input voltage range	100V-130V AC			180V-260V AC				
	Efficiency full load	92%	90%	88%	87%	89%	91%		

MODEL		RSC2500P-112	RSC2500P-124	RSC2500P-148	RSC2500P-212	RSC2500P-224	RSC2500P-248
by pass	ATS transfer	The power switch to battery within 2s if the city power cut off.					
DC output	charging current range	20A	10A	5A	20A	10A	5A
OUTPUT PROTECTION	OVER TEMPERATURE	≥45°C or ≥60% rated power, cooling fan open; ≥70°C, Shut off. Protection type : Shut down o/p voltage, re-power on to recover; by internal Thermistor detect on heatsink of power transistor					
	OUTPUT SHORT	Protection type: Shut down o/p voltage; re-power on to recover					
	OVER LOAD	100%-120% rated load for 10 sec.					
		Protection type : Shut down o/p voltage, re-power on to recover; by internal Thermistor detect on heatsink of power transistor					
ENVIRONMENT	WORKING TEMP.	-15°C~+40°C@100% load; 60°C @50% load					
	WORKING HUMIDITY	20%-90% RH non-condensing					
	STORAGE TEMP.	-30°C~+70°C					
	STORAGE HUMIDITY	10%-95% RH non-condensing					
SAFETY	CE	Compliance to EN55032					
	LVD	Compliance to EN60950-1					
	ROHS	Compliance to EN50581					
	E-MARK	E13					
	OTHERS	ISO9001/IATF16949/BSCI					
	UL test	Test report No.C 8 1 1 5 2072 ; UL order No.1 3 5 8 2 0 0 7					
	REACH	No.:1907/2006					
certificate of registration	IATF 16949:2016	111458/A/0001/SM/En					
OTHERS	USB port	5V/2.1A					
	DIMENSION L*w*H (mm)	460*220*90					
	PACKING(cm)	61*34*42 ;2pcs/CTN,16.5KG					

#### Product feature and application of the 2500W pure sine wave inverter with charger

- ①. multi-function conversion socket, in line with the requirements of multiple national electrical appliances.
- ②. 5V 2.1A USB interface More than one mobile phone at the same time leisure, office, entertainment, games and other needs.
- ③. miniature intelligent ball fan, low noise, high heat dissipation.
- ④. Car cigarette lighter socket, easy to connect a variety of trucks, cars, large trucks.
- ⑤. thick double-layer PCB board, more high temperature, voltage, current resistance, product quality, longer life expectancy, quality assurance.
- ⑥. SMT chip technology, the use of wave soldering technology, product components rugged, shock resistant.
- ⑦. auto-transfer switch by pass and battery charger function
- ⑧. protections: Over temperature/over load/short circuit/reverse polarity protection/earth leakage;
- ⑨. Applications: electrical applications like TV/microwave/washing-machine /air-conditioner /hair dryer /oven; electrical vehicles, truck, yacht, outside portable power source for lighting, charging etc.

#### Product Qualification of the 2500W pure sine wave inverter with charger

- A. CE Compliance to EN55032
- B. RoHS Compliance to EN50581
- C. LVD Compliance to EN60950-1
- D. E-Mark E13
- E. IATF 16949
- F. REACH/UL/TUV report