

### Datasheet inverter 500W

Real loading 500W pure sine wave inverter with charger renew and update all the time to meet the global market according the development of the technology. The hybrid inverter use for the off grid solar system and the backup energy, the inverters must pass the strict test such as vibration test, low & high temperature alternating test, salty spray test to ensure the high quality. Inverter with high efficiency DC to AC solar power converter, high performance apply for various types applications equipped with USB port and multiple sockets use for laptops, desktop computers, fluorescent lamps, light bulbs, fans, home hair dryer, electric drill, printer, digital camera, portable power supply, mobile audio, mobile audio, mobile phones, portable phones, outdoor barbecue equipment, medical equipment.

#### Product parameter(Specification) of the 500W 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		RSC500P-112	RSC500P-124	RSC500P-148	RSC500P-212	RSC500P-224	RSC500P-248	
<b>OUTPUT</b>	RATED POWER	500W						
	SURGE POWER	1000W						
	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	50A	25A	12.5A	50A	25A	12.5A	
	NO LOAD CURRENT DRAW	<0.32A	<0.25A	<0.12A	<0.32A	<0.25A	<0.12A	
	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%	
<b>by pass</b>	ATS transfer	The power switch to battery within 2s if the city power cut off.						
<b>DC output</b>	charging current range	10A	5A	2.5A	10A	5A	2.5A	
<b>OUTPUT PROTECTION</b>	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 100%-120% rated load for 10 sec.						
	OVER LOAD	Protection type : Shut down o/p voltage, re-power on to recover; by internal Thermistor detect on heatsink of power transistor						

MODEL		RSC500P-112	RSC500P-124	RSC500P-148	RSC500P-212	RSC500P-224	RSC500P-248
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)	310*150*70					
	PACKING(cm)	43.5*41.5*29 ;4pcs/CTN,14KG					

#### Product feature and application of the 500W 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 500W 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