



KOSUNPOWER

**Datasheet Inverter 300W**

Real loading 300W inverter with 600W peak power loading DC to AC solar power converter works principle as follow: with UPS & ECO mode for the operation according to the customer's demands. The UPS inverter mode is that UPS priority for the 300W pure sine wave inverter with charger: the AC main input to load appliances and charge to the battery, the battery discharge to keep the appliances continue operating regular if the AC main cut off in a sudden. The ECO mode means that the battery discharge at one when connect the inverter and battery as well as the appliances, the power auto transfer to the AC main power if the battery fully discharged, then the AC main power load appliances and charge to the battery in the same time.

The hybrid power inverter 300W have many protections like low voltage, over voltage, over load, high temperature, short circuit, reverse polarity protection, the inverters must pass the strict test such as vibration test, low & high temperature alternating test, salty spray test to ensure the high quality. KOSUN UPS inverter serve with reasonable factory price and OEM, ODM high performance apply for various types applications equip 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 phones, portable phones, outdoor barbecue equipment, medical equipment. The UPS inverter has passed CE/RoHS/LVD/E-Mark/SAA 4763 certificate, IATF 16949 management system certificate and REACH/UL/TUV test report for the hot sale market.

**Product parameter(Specification) of the 300W 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	RSC300P-112	RSC300P-124	RSC300P-148	RSC300P-212	RSC300P-224	RSC300P-248
AC OUTPUT	RATED POWER	300W				
	SURGE POWER	600W				
	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				
DC INPUT	FRONT PANEL INDICATOR	Operation and fault status				
	BAT.VOLTAGE	12V	24V	48V	12v	24V
	VOLTAGE RANGE	9.8-16.2VDC	19.7-32.3VDC	39.5-63.5VDC	9.8-16.2VDC	19.7-32.3VDC
	DC CURRENT	20A	15A	7.5A	20A	15A
	NO LOAD CURRENT DRAW	<0.32A	<0.25A	<0.12A	<0.32A	<0.25A
	EFFICIENCY	89%	>90%		92%	88%
BATTERY INPUT PROTECTION	BATTERY TYPES	Recommend use Open & sealed lead acid battery				
	BAT.LOW ALARM	10.5±0.2V	21±0.3V	42±0.5V	10.5±0.2V	21±0.3V
	BAT.LOW SHUTDOWN	10.2±0.2V	20±0.3V	40±0.5V	10.2±0.2V	20±0.3V
	BAT.OVER SHUTDOWN	16±0.2V	32±0.3V	64±0.5V	16±0.2V	32±0.3V
	REVERSE POLARITY	yes				
AC INPUT	Nominal voltage/Frequency	115V/60Hz			230V/50Hz	
	Input voltage range	100V-130V AC			180V-260V AC	
	Efficiency full load	92%	90%	88%	87%	89%
by pass	ATS transfer	The power switch to battery within 2s if the city power cut off.				
DC output	charging current range	10A	5A	2.5A	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				

MODEL		RSC300P-112	RSC300P-124	RSC300P-148	RSC300P-212	RSC300P-224	RSC300P-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)	230*150*70					
	PACKING(cm)	42*34*43.5 ;6pcs/CTN,15KG					

#### Product feature and application of the 300W 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 300W 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