

Datasheet inverter 2000W

Real loading 2000W pure sine wave inverter with charger design with high efficiency DC to AC solar power converter, hybrid inverter 2000W is engineered with SOFT START feature, when the inverter is turned on, the output voltage gradually ramp up from 0VAC to rated voltage in about 1Sec, this effectively reduce high starting inrush current drawn by AC loads such as switched mode power supplies and inductive loads. The UPS inverter 2000W test with strict process during the whole produce which hold the high efficiency for the real loading condition.

Product parameter(Specification) of the 2000W 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 | | RSC2000P-112 | RSC2000P-124 | RSC2000P-148 | RSC2000P-212 | RSC2000P-224 | RSC2000P-248 |
|---------------------------------|---------------------------|---|--------------|--------------|--|--------------|--------------|
| OUTPUT | RATED POWER | 2000W | | | | | |
| | SURGE POWER | 4000W | | | | | |
| | 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 | | | | | |
| INPUT | 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 | 200A | 100A | 50A | 200A | 100A | 50A |
| | NO LOAD CURRENT DRAW | <0.9A | <0.78A | <0.65A | <0.9A | <0.78A | <0.65A |
| | EFFICIENCY | 89% | >90% | 92% | 88% | 90% | 91% |
| 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 | 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 | | | | | |
| 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% | 91% |
| 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 | | | | | |
| | | 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 | | RSC2000P-112 | RSC2000P-124 | RSC2000P-148 | RSC2000P-212 | RSC2000P-224 | RSC2000P-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 | | | | | |
| certificate of registration | IATF 16949:2016 | 111458/A/0001/SM/En | | | | | |
| OTHERS | USB port | 5V/2.1A | | | | | |
| | DIMENSION L*W*H (mm) | 410*220*90 | | | | | |
| | PACKING(cm) | 54*32*36 ;2pcs/CTN,15KG | | | | | |

Product feature and application of the 2000W 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 2000W 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