



# KOSUN 500W Modified Sine Wave Inverter



- Modified sine wave output;
- 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 90%;
- Power ON-OFF switch;
- Soft start;
- Built-out fuse;
- More stable working functions
- 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.
- 12 months warranty

| MODEL  |                       | KS500M-112  | KS500M-124   | KS500M-148   | KS500M-212                               | KS500M-224   | KS500M-248   |  |
|--------|-----------------------|---|--------------|--------------|--|--------------|--------------|--|
| OUTPUT | 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             | Modified sine wave                                  |              |              |  |              |              |  |
|        | 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         | 9.7-16.4VDC   | 19.4-32.8VDC | 38.8-65.6VDC | 9.7-16.4VDC                              | 19.4-32.8VDC | 38.8-65.6VDC |  |
|        | DC CURRENT            | 50A   | 25A          | 12.5A        | 50A                                      | 25A          | 12.5A        |  |
|        | NO LOAD CURRENT       | <0.25A  | <0.21A       | <0.19A       | <0.25A                                   | <0.21A       | <0.19A       |  |

|                             |                     |   |           |           |           |           |           |
|-----------------------------|---------------------|---|-----------|-----------|-----------|-----------|-----------|
|                             | DRAW                |   |           |           |           |           |           |
|                             | EFFICIENCY          | 89%   | >90%      | 92%       | 88%       | 90%       | 91%       |
|                             | BATTERY TYPES       | Recommend use Open & sealed lead acid battery   |           |           |           |           |           |
| BATTERY INPUT PROTECTION    | BAT.LOW ALARM       | 10.8±0.3V   | 21.6±0.6V | 43.2±1.2V | 10.8±0.3V | 21.6±0.6V | 43.2±1.2V |
|                             | BAT.LOW SHUTDOWN    | 10±0.3V   | 20±0.6V   | 40±1.2V   | 10±0.3V   | 20±0.6V   | 40±1.2V   |
|                             | BAT.OVER SHUTDOWN   | 16±0.4V   | 32±0.8V   | 64±1.6V   | 16±0.4V   | 32±0.8V   | 64±1.6V   |
|                             | REVERSE POLARITY    | yes   |           |           |           |           |           |
| OUTPUT PROTECTION           | OVER TEMPERATURE    | ≥45°C or ≥60% rated power, cooling fan open; ≥70°C, Shut off.<br>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 / -22°F ~ +158°F  |           |           |           |           |           |
|                             | 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             | B08H52NN2M/ B08H54PCDT/ B08H4TMTJC/ B08H51DTM8  |           |           |           |           |           |
|                             | 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) | 150*100*50  |           |           |           |           |           |
|                             | PACKING(cm)         | 44*38*34 ;16pcs/CTN,18KG  |           |           |           |           |           |