

## Ningbo Kosun New Energy Co.,Ltd

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## New Series Pure Sine Wave Inverter with ATS transfer function

## **★★★★** 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;
- Standby saving mode;
- Built-in fuse;
- Inverter with ATS transfer;
- More safety connection by plastic terminal
- 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.
- 18 months wattanty





| SPECIFICATIO                   | <u> </u>  |   |   |  |                                     |            |                  |  |
|--------------------------------|---|---|---|--|-------------------------------------|------------|------------------|--|
| MODEL                          |   | KS500PT   | KS1000PT  | KS1500PT   | KS2000PT                            | KS2500PT   | KS3000PT         |  |
| ОИТРИТ                         | RATED POWER   | 500W  | 1000W   | 1500W  | 2000W                               | 2500W      | 3000W            |  |
|                                | SURGE POWER   | 1000W   | 2000W   | 3000W  | 4000W                               | 5000W      | 6000W            |  |
|                                | AC VOLTAGE  | Factory setting set at 110V/220V AC   |   |  |                                     |            |                  |  |
|                                | FREQUENCY   | Factory setting set at 50HZ/60Hz  |   |  |                                     |            |                  |  |
|                                | WAVE FORM   | Ture sine wave(THD<3%) at rated input voltage   |   |  |                                     |            |                  |  |
|                                | AC REGULATION   | ±10%  |   |  |                                     |            |                  |  |
|                                | STANDARD RECEPTAC   | Schuko/UK/Australia/Universal/USA/France/JP/Brazile   |   |  |                                     |            |                  |  |
|                                | FRONT PANEL INDICA Operation and fault status   |   |   |  |                                     |            |                  |  |
| INPUT                          | BAT.VOLTAGE   | 12V   | 24V   | 48V  | 12V                                 | 24V        | 48V              |  |
|                                | VOLTAGE RANGE   | 10.8-15.5VDC  | 21.6-31VDC  | 43.2-62VDC   | 10.8-15.5VDC                        | 21.6-31VDC | 43.2-62VDC       |  |
|                                | DC CURRENT  | 50A   | 25A   | 13A  | 50A                                 | 25A        | 13A              |  |
|                                | FUSE  | 35A*2   | 35A*1   | 20A*1  | 35A*2                               | 35A*1      | 20A*1            |  |
|                                | NO LOAD CURRENT D   | 0.51A   | 0.25A   | 0.17A  | 0.51A                               | 0.25A      | 0.17A            |  |
|                                | EFFICIENCY  | >92%  |   |  |                                     |            |                  |  |
|                                | BATTERY TYPES   | Recommend use Open & sealed lead acid battery   |   |  |                                     |            |                  |  |
| BATTERY<br>INPUT<br>PROTECTION | BAT.LOW ALARM   |   | 21.6±0.4V   | 43.2±0.8V  | 10.8±0.2V                           | 21.6±0.4V  | 43.2±0.8V        |  |
|                                | BAT.LOW SHUTDOWN  | 10.2±0.2V   | 20.4±0.4V   | 40.8±0.8V  | 10.2±0.2V                           | 20.4±0.4V  | 40.8±0.8V        |  |
|                                | BAT.OVER SHUTDOWN   | 15.5±0.2V   | 31±0.4V   | 62±0.8V  | 15.5±0.2V                           | 31±0.4V    | 62±0.8V          |  |
|                                |   | By design inside fuse   |   |  |                                     |            |                  |  |
| by pass                        | ATS transfer  | The power switch to battery within 2s if the city power cut off.  |   |  |                                     |            |                  |  |
|                                |   | 75°C  |   |  |                                     |            |                  |  |
|                                | OVER TEMPERATURE  | <b>75</b> ℃   |   | -  |                                     |            |                  |  |
| OUTPUT                         |   |   | :Shut down o/r  | voltage:re-pov   | ver on to recove                    | er .       |                  |  |
| OUTPUT                         | OUTPUT SHORT  | Protection type   |   |  | ver on to recove                    |            | cover within 10  |  |
| OUTPUT                         | OUTPUT SHORT OVER LOAD  | Protection type<br>120% rated po  | wer/protection  | type:shut down   | ver on to recove<br>o/p voltage;re- |            | ecover within 10 |  |
|                                | OUTPUT SHORT OVER LOAD WORKING TEMP.  | Protection type<br>120% rated po<br>0~+40℃@100  | wer/protection<br>1% load;60℃ @   | type:shut down<br>50% load   |                                     |            | ecover within 10 |  |
|                                | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY   | Protection type<br>120% rated po<br>0~+40℃@100<br>20%-90% RH I  | wer/protection<br>0% load;60℃ @<br>non-condensing   | type:shut down<br>50% load   |                                     |            | ecover within 10 |  |
| OUTPUT                         | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP.   | Protection type<br>120% rated po<br>0~+40° @ 100<br>20%-90% RH I<br>-30~+70°/-2   | wer/protection $0\%$ load; $60\%$ $0\%$ $0\%$ $0\%$ $0\%$ $0\%$ $0\%$ $0\%$   | type:shut down<br>50% load   |                                     |            | ecover within 10 |  |
|                                | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY  | Protection type<br>120% rated po<br>0~+40° @100<br>20%-90% RH I<br>-30~+70°C/-2<br>10%-95% RH I   | wer/protection<br>1% load;60℃ @<br>non-condensing<br>2~+158°F<br>non-condensing   | type:shut down<br>50% load   |                                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE   | Protection type<br>120% rated po<br>0~+40°C @ 100<br>20%-90% RH I<br>-30~+70°C/-2<br>10%-95% RH I<br>Compliance to  | wer/protection % load;60°C @ non-condensing 2~+158°F non-condensing EN50498   | type:shut down<br>50% load   |                                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY  | Protection type 120% rated po 0~+40°C @ 100 20%-90% RH I -30~+70°C/-2 10%-95% RH I Compliance to Compliance to  | wer/protection 1% load;60°C @ non-condensing 2~+158°F non-condensing EN50498 EN60950-1  | type:shut down<br>50% load   |                                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS  | Protection type<br>120% rated po<br>0~+40° @100<br>20%-90% RH I<br>-30~+70° C/-2<br>10%-95% RH I<br>Compliance to<br>Compliance to<br>Compliance to   | wer/protection<br>$1000 \times 1000 \times 10000 \times 10000 \times 1000 \times 100$ | type:shut down<br>50% load   |                                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK   | Protection type<br>120% rated po<br>0~+40° @100<br>20%-90% RH I<br>-30~+70°C/-2<br>10%-95% RH I<br>Compliance to<br>Compliance to<br>Compliance to<br>E13*10R05/01  | wer/protection<br>19% load;60°C @<br>non-condensing<br>2~+158°F<br>mon-condensing<br>EN50498<br>EN60950-1<br>EN50581<br>*14562*00   | type:shut down<br>50% load   | o/p voltage;re-                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM   | Protection type<br>120% rated po<br>0~+40° @100<br>20%-90% RH II<br>-30~+70° C/-2<br>10%-95% RH II<br>Compliance to<br>Compliance to<br>E13*10R05/01<br>Buzzer sound 2  | wer/protection 19% load;60°C @ non-condensing 2~+158°F non-condensing EN50498 EN60950-1 EN50581 *14562*00 2 times and red   | type:shut down<br>50% load   | o/p voltage;re-                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM LOW BAT.SHUTDOWN  | Protection type 120% rated po 0~+40°C @100 20%-90% RH I -30~+70°C/-2 10%-95% RH I Compliance to Compliance to Compliance to E13*10R05/01 Buzzer sound 3 Buzzer sound 3  | wer/protection 19% load;60°C @ non-condensing 2~+158°F non-condensing EN50498 EN60950-1 EN50581 *14562*00 2 times and red 3 times and red   | type:shut down<br>50% load<br>light blink 2 tim<br>light blink 3 tim             | o/p voltage;re-                     |            | ecover within 10 |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM   | Protection type 120% rated po 0~+40°C @100 20%-90% RH I -30~+70°C/-2 10%-95% RH I Compliance to Compliance to Compliance to E13*10R05/01 Buzzer sound 2 Buzzer sound 4  | wer/protection 1% load;60°C @ non-condensing 2~+158°F non-condensing EN50498 EN60950-1 EN50581 *14562*00 2 times and red 4 times and red  | type:shut down<br>50% load<br>light blink 2 tim<br>light blink 3 tim             | o/p voltage;re-                     |            | ecover within 10 |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM LOW BAT.SHUTDOWN OVER BAT.SHUT DOW  | Protection type 120% rated po 0~+40°C @100 20%-90% RH 1-30~+70°C/-2 10%-95% RH 10 Compliance to Compliance to E13*10R05/01 Buzzer sound 3 Buzzer sound 4 Buzzer sound 5 Buzzer sound 5  | wer/protection 1% load;60°C @ non-condensing 2~+158°F non-condensing EN50498 EN60950-1 EN50581 *14562*00 2 times and red 3 times and red 4 times and red 5 times and red 5 times and red  | type:shut down 50% load  light blink 2 tim light blink 3 tim light blink 4 tim   | o/p voltage;re-                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM LOW BAT.SHUTDOWN OVER BAT.SHUT DOW  | Protection type 120% rated po 0~+40°C @100 20%-90% RH 1-30~+70°C/-2 10%-95% RH 1 Compliance to Compliance to Compliance to E13*10R05/01 Buzzer sound 2 Buzzer sound 5 Buzzer sound 5 Light blink cons                                   | wer/protection 19% load; 60°C @ non-condensing 2~+158°F non-condensing EN50498 EN60950-1 EN50581 *14562*00 2 times and red 3 times and red 5 times and red 6 times and red  | light blink 2 tim<br>light blink 3 tim<br>light blink 4 tim<br>light blink 5 tim | o/p voltage;re-                     |            | cover within 10  |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM LOW BAT.SHUTDOWN OVER BAT.SHUT DOW OVER TEMP OVER LOAD COOLING                | Protection type 120% rated po 0~+40°C @100 20%-90% RH 1-30~+70°C/-2 10%-95% RH 1 Compliance to Compliance to Compliance to E13*10R05/01 Buzzer sound 2 Buzzer sound 5 Buzzer sound 5 Light blink cons                                   | wer/protection 1% load;60°C @ non-condensing 2~+158°F non-condensing EN50498 EN60950-1 EN50581 *14562*00 2 times and red 3 times and red 4 times and red 5 times and red 5 times and red  | light blink 2 tim<br>light blink 3 tim<br>light blink 4 tim<br>light blink 5 tim | o/p voltage;re-                     |            | ecover within 10 |  |
| ENVIRONMENT SAFETY LED BUZZER  | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM LOW BAT.SHUTDOWN OVER BAT.SHUT DOW OVER TEMP OVER LOAD COOLING CONTROL WIRING | Protection type 120% rated po 0~+40°C @100 20%-90% RH I -30~+70°C/-2. 10%-95% RH I Compliance to Compliance to Compliance to E13*10R05/01 Buzzer sound 2 Buzzer sound 5 Buzzer sound 5 Light blink const. Load and Temp RJ11            | wer/protection 19% load; 60°C @ 19% load  | light blink 2 tim<br>light blink 3 tim<br>light blink 4 tim<br>light blink 5 tim | o/p voltage;re-                     |            | ecover within 10 |  |
| ENVIRONMENT                    | OUTPUT SHORT OVER LOAD WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. STORAGE HUMIDITY CE LVD ROHS E-MARK LOW BAT.ALARM LOW BAT.SHUTDOWN OVER BAT.SHUT DOW OVER TEMP OVER LOAD COOLING                | Protection type 120% rated po 0~+40°C @100 20%-90% RH I -30~+70°C/-2 10%-95% RH I Compliance to Compliance to Compliance to E13*10R05/01 Buzzer sound 2 Buzzer sound 2 Buzzer sound 5 Light blink const. Load and Temp RJ11 210*150*70M | wer/protection 19% load; 60°C @ 19% load  | light blink 2 tim<br>light blink 3 tim<br>light blink 5 tim<br>light blink 5 tim | o/p voltage;re-                     |            | ecover within 10 |  |