

## FEATURES

- True sine wave output (THD < 3%)
- Power ON-OFF remote control
- Input & output fully isolation
- Load control cooling fan
- Advanced microprocessor
- Output frequency 50/60 Hz switch selectable
- Low power saving mode to conserve energy
- Built-in transfer switch and AC circuit breaker
- ROF(remote override function) or ignition lockout function option
- Speed up transfer time & synchronized operation with utility AC source
- Input polarity reverse / under voltage / over voltage protections
- Output short circuit / overload / over temperature protections
- Tri-color indicators display input, output level & failure status
- e-13 / CE / FCC approved



|                         | MODEL No.                             | ST1500-112  | ST1500-124   | ST1500-148 | ST1500-212                                | ST1500-224   | ST1500-248 |
|-------------------------|---------------------------------------|---|--------------|------------|---|--------------|------------|
|                         | <b>AC VOLTAGE</b>                     | 100 / 110 / 120VAC  |              |            | 220 / 230 / 240 VAC                       |              |            |
| <b>OUTPUT</b>           | <b>RATED POWER</b>                    | 1500W   |              |            |   |              |            |
|                         | <b>SURGE POWER</b>                    | 3000W   |              |            |   |              |            |
|                         | <b>WAVEFORM</b>                       | True sine wave (THD < 3%)   |              |            |   |              |            |
|                         | <b>FREQUENCY</b>                      | 50 / 60 Hz selectable by DIP switch   |              |            |   |              |            |
|                         | <b>AC REGULATION</b>                  | ± 3%  |              |            |   |              |            |
|                         | <b>POWER FACTOR ALLOWED</b>           | COS $\theta$ -90°~ COS $\theta$ +90°  |              |            |   |              |            |
|                         | <b>STANDARD RECEPTACLES</b>           | HARDWIRE  |              |            |   |              |            |
|                         | <b>LED INDICATOR</b>                  | Input voltage level, output load level and fault status                     |              |            |   |              |            |
| <b>INPUT</b>            | <b>NO LOAD CURRENT DRAW</b>           | 1.45A   | 0.75A        | 0.40A      | 1.40A                                     | 0.70A        | 0.40A      |
|                         | <b>STAND-BY CURRENT DRAW</b>          | 0.28A   | 0.15A        | 0.09A      | 0.28A                                     | 0.15A        | 0.09A      |
|                         | <b>DC VOLTAGE</b>                     | 12VDC   | 24VDC        | 48VDC      | 12VDC                                     | 24VDC        | 48VDC      |
|                         | <b>VOLTAGE RANGE</b>                  | 10.5~15.0VDC  | 21.0~30.0VDC | 42.0~60VDC | 10.5~15.0VDC                              | 21.0~30.0VDC | 42.0~60VDC |
|                         | <b>EFFICIENCY (Typ.)</b>              | 88.0%   | 91.0%        | 92.0%      | 92.0%                                     | 93.0%        | 94.0%      |
|                         | <b>FUSE</b>                           | 40A x5  | 20A x 5      | 20A x 3    | 40A x 5                                   | 20A x5       | 20A x 3    |
|                         | <b>CIRCUIT BREAKER</b>                | 16 Amps   |              |            | 10 Amps                                   |              |            |
|                         | <b>SYNCHRONOUS AC TRANSFER</b>        | YES   |              |            |   |              |            |
|                         | <b>TRANSFER SWITCH</b>                | 25 Amps   |              |            | 16 Amps                                   |              |            |
|                         | <b>TRANSFER TIME</b>                  | Inverter to utility AC:8~10 msec.;Utility AC to inverter:12~14 msec         |              |            |   |              |            |
|                         | <b>REMOTE CONTROL UNIT</b>            | CR6 / CR8 optional  |              |            |   |              |            |
| <b>PROTECTION</b>       | <b>BAT. LOW ALARM</b>                 | 11VDC   | 22VDC        | 44VDC      | 11VDC                                     | 22VDC        | 44VDC      |
|                         | <b>BAT. LOW SHUTDOWN</b>              | 10.5VDC   | 21.0VDC      | 42.0VDC    | 10.5VDC                                   | 21.0VDC      | 42.0VDC    |
|                         | <b>OVER LOAD</b>                      | Shut off output voltage, re-power on to recover                             |              |            |   |              |            |
|                         | <b>OVER VOLTAGE</b>                   | 15.3VDC   | 30.6VDC      | 61.2VDC    | 15.3VDC                                   | 30.6VDC      | 61.2VDC    |
|                         | <b>OVER TEMPERATURE</b>               | Shut off output voltage, recovers automatically after temperature goes down |              |            |   |              |            |
|                         | <b>OUTPUT SHORT</b>                   | Shut off output voltage, re-power on to recover                             |              |            |   |              |            |
|                         | <b>BAT. POLARITY</b>                  | By fuse open  |              |            |   |              |            |
| <b>ENVIRONMENT</b>      | <b>WORKING TEMP.</b>                  | 0 ~ +40°C   |              |            |   |              |            |
|                         | <b>WORKING HUMIDITY</b>               | 20% ~ 90% RH non-condensing   |              |            |   |              |            |
|                         | <b>STORAGE TEMP. HUMIDITY</b>         | -30°C ~ +70°C / -22° F ~ +158° F / 10~95%                                   |              |            |   |              |            |
| <b>SAFETY &amp; EMC</b> | <b>SAFETY STANDARDS</b>               | Meet UL458  |              |            | -----                                     |              |            |
|                         | <b>ISOLATION RESISTANCE</b>           | I/P ~ O/P: 100M Ohms / 500VDC   |              |            |   |              |            |
|                         | <b>EMI CONDUCTION &amp; RADIATION</b> | Compliance to FCC class A   |              |            | Compliance to EN55022 class A             |              |            |
|                         | <b>EMS IMMUNITY</b>                   | -----   |              |            | Compliance to EN61000-3 -2, 3             |              |            |
|                         | <b>LVD</b>                            | -----   |              |            | Compliance to EN60950-1                   |              |            |
|                         | <b>e-MARK</b>                         | -----   |              |            | Compliance to e-13 * 72/245/EEC, 95/54/EC |              |            |
| <b>OTHERS</b>           | <b>DIMENSION</b>                      | 403 x 236 x 115mm (L x W x H)   |              |            |   |              |            |
|                         | <b>PACKING</b>                        | 7.0kgs; 2sets / 15kgs / CARTON  |              |            |   |              |            |
|                         | <b>COOLING</b>                        | Loading controlled cooling fan  |              |            |   |              |            |
|                         | <b>APPLICATION</b>                    | Power tools and Portable equipments, Vehicle, and Yacht ...etc.             |              |            |   |              |            |