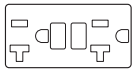
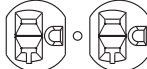






### Features:

- Pure sine wave output
- Power ON / OFF remote control (Green Terminal)
- Remote controller CR-8 / CR-16 (optional)
- Input & Output fully isolation
- Temperature & Load controlled cooling fan
- Built in advance microprocessor to provide friendly interface
- Output frequency 50 / 60 Hz selectable by DIP switch
- Output voltage DIP switch selectable
- Adjustable power saving mode by variable resister
- 3-color LED status indicators
- Input protection: Reverse Polarity (Fuse) / Under Voltage / Over Voltage
- Output protection: Short Circuit / Overload / Over Temperature
- E-13 / UL / CE / FCC approved



| MODEL            |                                  | SP-1500-112   | SP-1500-124    | SP-1500-148   | SP-1500-212   | SP-1500-224  | SP-1500-248    |
|------------------|----------------------------------|---|----------------|---|---|--|----------------|
| Output           | AC Voltage                       | 100 / 110 / 115 / 120VAC  |                |   | 200 / 220 / 230 / 240VAC  |  |                |
|                  | AC Regulation                    | ±5%   |                |   | ±3%   |  |                |
|                  | Rated Power                      | 1500VA  |                |   |   |  |                |
|                  | Surge Power ( 1 Sec )            | <2650VA   |                |   |   |  |                |
|                  | Maximum Output Power (1 Min)     | >1500VA~1730VA (100%~115%)  |                |   |   |  |                |
|                  | Output Waveform                  | Pure Sine Wave (THD<5%@Normal Load NOTE1)   |                |   | Pure Sine Wave (THD<3%@Normal Load NOTE2)   |  |                |
|                  | Frequency                        | 50 / 60 Hz ±0.5%  |                |   |   |  |                |
| Input            | DC Voltage                       | 12VDC   | 24VDC          | 48VDC   | 12VDC   | 24VDC  | 48VDC          |
|                  | Voltage Range                    | 10.5 ~ 16.5VDC  | 21.0 ~ 33.0VDC | 42.0 ~ 66.0VDC  | 10.5 ~ 16.5VDC  | 21.0 ~ 33.0VDC   | 42.0 ~ 66.0VDC |
|                  | NO Load Current                  | ≤1.8A@12VDC   | ≤1.0A@24VDC    | ≤0.5A@48VDC   | ≤1.8A@12VDC   | ≤1.0A@24VDC  | ≤0.5A@48VDC    |
|                  | Power Saving Mode                | <0.1A@12VDC   | <0.05A@24VDC   | <0.05A@48VDC  | <0.1A@12VDC   | <0.05A@24VDC   | <0.05A@48VDC   |
|                  | Efficiency (Max.)                | 91%   | 92%            | 93%   | 93%   | 94%  | 94%            |
| Protection       | Input Under - Voltage Protection | 10.5 ±0.3VDC  | 21.0 ±0.5VDC   | 42.0 ±1.0VDC  | 10.5 ±0.3VDC  | 21.0 ±0.5VDC   | 42.0 ±1.0VDC   |
|                  | Input Under - Voltage Alarm      | 11.0 ±0.3VDC  | 22.0 ±0.5VDC   | 44.0 ±1.0VDC  | 11.0 ±0.3VDC  | 22.0 ±0.5VDC   | 44.0 ±1.0VDC   |
|                  | Input Under - Voltage Recovery   | 12.5 ±0.3VDC  | 25.0 ±0.5VDC   | 50.0 ±1.0VDC  | 12.5 ±0.3VDC  | 25.0 ±0.5VDC   | 50.0 ±1.0VDC   |
|                  | Input Over - Voltage Protection  | 16.5 ±0.3VDC  | 33.0 ±0.5VDC   | 66.0 ±1.0VDC  | 16.5 ±0.3VDC  | 33.0 ±0.5VDC   | 66.0 ±1.0VDC   |
|                  | Input Over - Voltage Recovery    | 14.5 ±0.3VDC  | 29.0 ±0.5VDC   | 58.0 ±1.0VDC  | 14.5 ±0.3VDC  | 29.0 ±0.5VDC   | 58.0 ±1.0VDC   |
|                  | Output Overload                  | Shutdown output voltage, restart to recover   |                |   |   |  |                |
|                  | Output Short                     | Shutdown output voltage, restart to recover   |                |   |   |  |                |
|                  | Over Temperature                 | Heat sink temperature over 80°C ±5°C, shutdown output voltage, recover automatically after heat sink temperature goes down to 60°C ±5°C |                |   |   |  |                |
| Environment      | Operating Temp.                  | -20°C ~ +40°C   |                |   |   |  |                |
|                  | Storage Temp.                    | -30°C ~ +70°C   |                |   |   |  |                |
|                  | Storage Temp. & Humidity         | 10 ~ 95% RH   |                |   |   |  |                |
| Safety & EMC     | Safety Standards                 | Certified UL 458 NOTE.3   |                | ----  | Certified EN 60950-1  |  |                |
|                  | EMC Standards                    | Certified FCC class B   |                |   | Certified EN 55022; EN 55024<br>EN 61000-3-2, -3-3<br>EN 61000-4-2, 3, 4, 5, 6, 8, 11 |  |                |
|                  | E-mark                           | ----  |                |   | Certified CISPR 25<br>ISO 11452-2; ISO 7637-2   |  |                |
| Control & Signal | Remote Control (Optional)        | CR-8 / CR-16  |                |   |   |  |                |
|                  | LED Indicator                    | Input voltage level, output load level and faulty status  |                |   |   |  |                |
|                  | Dry Contact Terminal             | By relay  |                |   |   |  |                |
|                  | Remote Control Terminal          | 6-port green terminal   |                |   |   |  |                |
| Others           | Dimension (W x H x D)            | 248x83x421 mm / 9.76x3.27x16.57 inch  |                |   |   |  |                |
|                  | Packing                          | 4.14kg; 4pcs / 17.56kg / 3.58CUFT   |                |   |   |  |                |
|                  | Cooling                          | Temperature & load controlled cooling fan   |                |   |   |  |                |
|                  | Application                      | Home and office appliances, portable power equipment, vehicle, yacht and off-grid Solar power systems ...etc.                           |                |   |   |  |                |
|                  | Socket Type                      | <br>North America<br>(GFCI)                          |                | <br>North America<br>(NEMA 5-20RI) |   |    <br>Continental<br>European<br>(SCHUKO)    Australia /<br>New Zealand    United<br>Kingdom    Universal |                |

Note1 - Normal Condition: Vin=12.5V / 25V / 50V Vo=100 / 110 / 115 / 120 VAC 80% Full load (PF=1.0)

Note2 - Normal Condition: Vin=12.5V / 25V / 50V Vo=200 / 220 / 230 / 240 VAC 80% Full load (PF=1.0)

Note3 - UL only for GFCI receptacles

### Mechanical Drawings:

