

Features:

- Parallel redundancy design for power expansion
- Multiple industrial applications that create 1Φ3W / 3Φ4W power systems
- Automatic master mechanism to eliminate single point failure and optimize reliability
- Built-in ATS and AC circuit breaker
- Optional STS module, transfer time less 4ms.
- RS-232 communication
- Input & output fully isolation
- Output voltage / power saving mode selectable by DIP switch or remote control (CR-10)
- Input Protection: Reverse Polarity (Fuse) / Under Voltage / Over Voltage
- Output Protection: Short Circuit / Overload / Over Temperature / Over Voltage



| MODEL | | SD3500-112 | SD3500-124 | SD3500-148 | SD3500-212 | SD3500-224 | SD3500-248 |
|---------------------------------|---|--|--------------|--|---|--------------|--------------|
| Output | Rating Power | 3500VA (de-rating after 35°C, refer to de-rating curve for 12V) (de-rating after 40°C, refer to de-rating curve for 24V and 48V) | | | | | |
| | Output Power (Max. 3 min.) | 3500 ~ 4500VA | | | | | |
| | Peak Power (Max. 3 sec.) | 4500 ~ 6000VA | | | | | |
| | Surge Power (Max. 0.2 sec.) | >6000VA | | | | | |
| | Waveform | Pure Sine Wave | | | | | |
| | Efficiency (Max.) | 90% | 90% | 91% | 90% | 91% | 91% |
| | Output Voltage (@rated VDC) | 100 / 110 / 115 / 120VAC ±3% | | | 200 / 220 / 230 / 240VAC ±3% | | |
| | Output Frequency | 50 / 60Hz ±0.1% | | | | | |
| Total Harmonic Distortion (THD) | < 3% @ under condition : greater than 1.15 times of the rated VDC, 110V / linear load) | | | < 3% @ under condition : greater than 1.15 times of the rated VDC, 230V / linear load) | | | |
| DC Input | DC Voltage | 12VDC | 24VDC | 48VDC | 12VDC | 24VDC | 48VDC |
| | Voltage Range | 10.0~16.0VDC | 20.0~32.0VDC | 40.0~64.0VDC | 10.0~16.0VDC | 20.0~32.0VDC | 40.0~64.0VDC |
| | No load Power Consumption | @12VDC | @24VDC | @48VDC | @12VDC | @24VDC | @48VDC |
| | On Mode @ Save Mode | 1.4A | 0.5A | 0.5A | 1.4A | 0.5A | 0.5A |
| | On Mode @ No Load Mode | < 2.9A | < 1.4A | < 0.8A | < 3.6A | < 1.8A | < 1A |
| | Fuse | 40Ax12 | 20Ax12 | 20Ax6 | 40Ax12 | 20Ax12 | 20Ax6 |
| AC Input | AC Range | 100 / 110 / 115 / 120VAC±25%, recover±12.5% | | | 200 / 220 / 230 / 240VAC±25%, recover±12.5% | | |
| | Frequency Selectable | 50 / 60 Hz | | | | | |
| | Synchronous Frequency | 47 - 57 / 53 - 63 Hz | | | | | |
| | Circuit Breaker | 35A | | | 20A | | |
| | Transfer Switch *** | Standard ATS : Inverter to utility AC:8~10ms.; Utility AC to inverter: 16~50ms. Optional STS module : Single < 4ms; N+1&1P3W&3P4W < 6ms | | | | | |
| Protection | BAT.Low Alarm ±3% | 10.5VDC | 21.0VDC | 42.0VDC | 10.5VDC | 21.0VDC | 42.0VDC |
| | BAT.Low Shut-down ±3% | 10.0VDC | 20.0VDC | 40.0VDC | 10.0VDC | 20.0VDC | 40.0VDC |
| | BAT.Low Restart ±3% | 12.5VDC | 25.0VDC | 50.0VDC | 12.5VDC | 25.0VDC | 50.0VDC |
| | BAT.High Alarm ±3% | 15.5VDC | 31.0VDC | 62.0VDC | 15.5VDC | 31.0VDC | 62.0VDC |
| | BAT.High Shut-down ±3% | 16.0VDC | 32.0VDC | 64.0VDC | 16.0VDC | 32.0VDC | 64.0VDC |
| | BAT.High Restart ±3% | 15.0VDC | 30.0VDC | 60.0VDC | 15.0VDC | 30.0VDC | 60.0VDC |
| | Input Protection | Reverse Polarity (Fuse) / Under Voltage / Over Voltage Protection / AC over current (Breaker) | | | | | |
| | Output Protection | Short Circuit / Overload / Over Temperature / Over Voltage | | | | | |
| Environment | Working Temp. | -20 ~ +60°C; refer to SD3500 power de-rating curve | | | | | |
| | Storage Temp. | -40 ~ +70°C | | | | | |
| | Relative Humidity | Max. 90%, non-condensing | | | | | |
| Safety & EMC | Safety Standards | **Certified UL 458 (UL only for hardwire) | | | Certified EN62368-1 | | |
| | EMC Standards | Certified FCC Class B | | | **Certified EN 55014-1, EN 55014-2, EN 61000-3-2, 3-3, EN61204-3; EN 61000-6-1, -6-2, -6-3, -6-4 EN 62368-1 | | |
| | E-Mark | - | | | Certified CISPR 25; ISO 7637-2 | | |
| Control & Signal | LED Indicator | Input voltage level, faulty status | | | | | |
| | Remote control | CR-6, CR-8 and CR-10 | | | | | |
| Others | Dimension (WxHxD) | 283x128x496 mm / 11.14x5.04x19.53 inch | | | | | |
| | Parking | 10 kg; 2pcs / 21kg / 3.19cuft | | | | | |
| | Cooling | Load & Thermal control fan | | | | | |
| | Communication Port | RS-232 (RJ-11 type connector), Ethernet (optional) | | | | | |
| Note | *UL-458 only support 112 and 124 model. **EN55014-1, EN55014-2 Class B : output cable less than 2 meters. ***Please refer to Transfer - Time Table. | | | | | | |

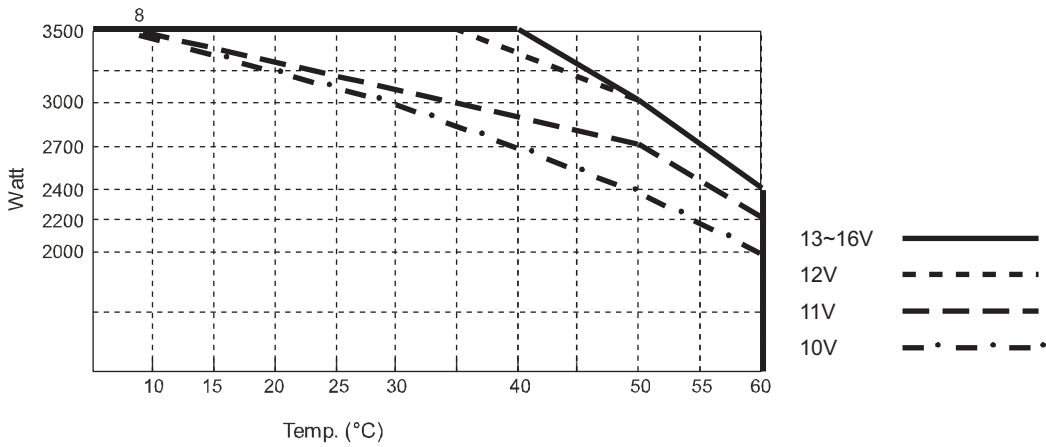
LED Status:

| Green LED | LED Signal | Status |
|--------------------|------------|-------------------|
| Solid | | Power OK |
| Slow Blink | | Power Saving |
| Intermittent Blink | | Bypass |
| Orange LED | LED Signal | Status |
| Fast Blink | | OVP |
| Slow Blink | | UVP |
| Red LED | LED Signal | Status |
| Intermittent Blink | | OTP |
| Fast Blink | | OVP- Shut-down |
| Slow Blink | | UVP- Shut-down |
| Solid | | OLP |
| Intermittent Blink | | Fan Failure |
| Intermittent Blink | | Component Failure |

Output Socket:

| North America (GFCI) | NEMA 5-15R | Continental European | UL458 |
|----------------------|-------------------------|----------------------|-------|
| | | | |
| United Kingdom | Australia / New Zealand | Universal | |
| | | | |

De-rating Curve:



Transfer Time :

| Transfer-Time Table | | |
|----------------------|--|---|
| Mode\Transfer Switch | ATS | STS |
| Haphazard | Inverter to utility AC : 8 ~ 10ms.; Utility AC to inverter : 16 ~ 50ms. | Frequency is synchronized : <4ms Frequency is not synchronized : Inverter to utility AC : <4ms.; Utility AC to inverter : 16 ~ 50ms. |
| Normal | Inverter to utility AC : 8 ~ 10ms.; Utility AC to inverter : 16 ~ 25ms. | <4ms |
| Exacting | Inverter to utility AC : 8 ~ 10ms.; Utility AC to inverter : 16 ~ 50ms. | Inverter to utility AC : <4ms.; Utility AC to inverter : 16 ~ 50ms. |
| Online | Inverter to utility AC : 8 ~ 10ms.; Utility AC to inverter : 16 ~ 25ms. | <4ms |

Mechanical Drawings:

Unit : mm [inch]

