



**DC-AC
Rackmount
Inverter with transfer
switch - 1U Height
Pure Sine Wave**

Model
SR1000-124
24 VDC- 120 VAC
SR1000-148
48 VDC- 120 VAC

Design Features

- Highly reliable, micro controller based, high quality Pure Sine Wave Inverter (THD < 2%) with Transfer Switch
- Output of inverter is synchronized in frequency and phase for faster and safer transfer
- Space saving, 1U height design for 19" Rack Mount installation
- Selectable output voltage (97 to 123 VAC) and frequency (47 to 63 Hz)
- Selectable On Line / Off Line Modes
- Monitoring and Control by Local LED / LCD panel and by remote RS-232 Interface
- Adjustable Low DC Input Voltage Alarm & Shutdown for Low Voltage Disconnect of batteries against deep discharge
- Load / temperature controlled cooling fans save power consumption
- Safety: UL Listed under UL60950-1
- EMC: Complies with FCC Part 15(B), Class B
- Applications:
 - Telecommunications
 - Solar power systems
 - Emergency backup power

2 YEAR WARRANTY

| MODEL NO. | SR1000-124 | SR1000-148 | |
|---------------------------------------|---|---|---|
| OUTPUT IN INVERTER MODE | OUTPUT VOLTAGE | 97-123 VAC (user selectable) | 97-123 VAC (user selectable) |
| | OUTPUT FREQUENCY | 47 to 63 Hz +/- 0.05% (user selectable) | 47 to 63 Hz +/- 0.05% (user selectable) |
| | TYPE OF OUTPUT WAVEFORM | Pure Sine Wave | |
| | TOTAL HARMONIC DISTORTION OF OUTPUT WAVEFORM | < 2% | |
| | CONTINUOUS OUTPUT POWER (AT POWER FACTOR = 1) | 1000W | |
| | SURGE OUTPUT POWER (AT POWER FACTOR = 1) | 2000W | |
| | PEAK EFFICIENCY (AT FULL LOAD) | 87% | 88% |
| AC OUTPUT CONNECTIONS | Dual NEMA5-20R receptacles | | |
| OUTPUT IN BY-PASS MODE | OUTPUT VOLTAGE | Same as external AC input source | |
| | OUTPUT FREQUENCY | Same as external AC input source | |
| | TYPE OF OUTPUT WAVEFORM | Same as external AC input source | |
| | TOTAL HARMONIC DISTORTION | Same as external AC input source | |
| | CONTINUOUS OUTPUT POWER | Load to be limited to 1000W. Protected by 12A breaker | |
| INPUT | NOMINAL DC INPUT VOLTAGE | 24 VDC | 48 VDC |
| | DC INPUT VOLTAGE RANGE | 18 to 34 VDC | 36 to 60 VDC |
| | DC INPUT CURRENT AT NO LOAD | 1.4A | 0.75A |
| | DC INPUT CONNECTIONS | M-8 screw / Wire with M-8 ring lug terminal | |
| | AC INPUT CONNECTIONS | Inlet receptacle (IEC 60320 C14) for detachable power cord | |
| BYPASS RELAY | RATING | 15A | |
| | SWITCHING TIMES | AC input source to inverter: ≤ 20 ms / Inverter to AC input source: ≤ 8 ms | |
| DISPLAY | LCD AND LED DISPLAYS | Yes | |
| REMOTE OPERATION | WIRED ON / OFF CONTROL | By external contact closure through mechanical / transistor switch | |
| | COMMUNICATION PORT | RS-232 Serial Port for remote operation and monitoring | |
| | DRY RELAY CONTACT | For remote indication of alarm / shut down conditions | |
| PROTECTION | LOW DC INPUT VOLTAGE ALARM | 19 to 23 VDC (user selectable) | 38 to 46 VDC (user selectable) |
| | LOW DC INPUT VOLTAGE SHUTDOWN | 18 to 22 VDC (user selectable) | 36 to 44 VDC (user selectable) |
| | HIGH DC INPUT VOLTAGE SHUTDOWN | 30 to 34 VDC (user selectable) | 60 VDC |
| | SHORT CIRCUIT SHUTDOWN | Yes | |
| | OVERLOAD SHUTDOWN | Yes | |
| | OVER TEMPERATURE SHUTDOWN | Yes | |
| | REVERSE POLARITY ON DC INPUT SIDE | Yes. Internal fuses will blow | |
| OVERLOAD PROTECTION - AC INPUT SOURCE | 12A Circuit Breaker | | |
| COOLING | FORCED AIR COOLING | 3 fans. Will switch ON/OFF at specified values of load / temperature of internal hot spot | |
| COMPLIANCE | SAFETY | UL Listed to UL60950-1 | |
| | EMI / EMC | Meets FCC Part 15(B), Class B | |
| ENVIRONMENT | OPERATING TEMPERATURE RANGE | 0°C to + 50°C / 32°F to +122°F | |
| | STORAGE TEMPERATURE RANGE | -30°C to 70°C / -22°F to 158°F | |
| DIMENSIONS | (W x D x H), MM / INCHES | 482.6 x 395 x 43.5 / 19 x 15.6 x 1.71 | |
| WEIGHT | KG | 5.8 | |
| | LBS | 12.8 | |

NOTE: Specifications are subject to change without notice

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