



**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	
<b>OUTPUT IN INVERTER MODE</b>	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	
<b>OUTPUT IN BY-PASS MODE</b>	PEAK EFFICIENCY (AT FULL LOAD)	87%	88%
	AC OUTPUT CONNECTIONS	Dual NEMA5-20R receptacles	
<b>OUTPUT IN BY-PASS MODE</b>	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	
<b>INPUT</b>	CONTINUOUS OUTPUT POWER	Load to be limited to 1000W. Protected by 12A breaker	
	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	
<b>BYPASS RELAY</b>	AC INPUT CONNECTIONS	Inlet receptacle (IEC 60320 C14) for detachable power cord	
	RATING	15A	
<b>DISPLAY</b>	SWITCHING TIMES	AC input source to inverter: ≤ 20 ms / Inverter to AC input source: ≤ 8 ms	
	LCD AND LED DISPLAYS	Yes	
<b>REMOTE OPERATION</b>	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	
<b>PROTECTION</b>	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		
<b>COOLING</b>	FORCED AIR COOLING	3 fans. Will switch ON/OFF at specified values of load / temperature of internal hot spot	
<b>COMPLIANCE</b>	SAFETY	UL Listed to UL60950-1	
	EMI / EMC	Meets FCC Part 15(B), Class B	
<b>ENVIRONMENT</b>	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	
<b>DIMENSIONS</b>	(W x D x H), MM / INCHES	482.6 x 395 x 43.5 / 19 x 15.6 x 1.71	
<b>WEIGHT</b>	KG	5.8	
	LBS	12.8	

NOTE: Specifications are subject to change without notice

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