



samlexamerica

1000W



DC-AC Rackmount Inverter - 1U height Pure Sine Wave

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

Design Features

- Fits 19" rack, 1 U (1.75") rack height – saves rack space
- Advanced micro-controller and intelligent software for operation, monitoring and control through visual LCD / LED displays and audio alarms
- Pure sine wave output (THD < 2%)
- Local LCD panel for monitoring and control
- Built-in 15 A transfer relay and 12 A AC input circuit breaker
- AC output of the inverter is kept synchronized in frequency and in phase with the AC input source to protect the load and the inverter for faster transfer. Option to disable synchronization
- Selectable output voltage: 97 to 123 VAC
- Selectable output frequency: 47 to 63 Hz
- Remote on/off control through external contact closure by mechanical / transistor switch
- RS-232 Serial Interface for remote control and monitoring
- Relay operated, dry contact terminals for alarm or shut down conditions
- Input and output are fully isolated
- Load / temperature controlled cooling fans save power consumption
- **Protections:** overload; short circuit; low and high DC input voltages; high temperature; reverse polarity
- **Safety:** UL60950-1 (Pending listing)
- **EMC:** Complies with FCC Part 15(B), Class B

	MODEL NO.	SR1000-124	SR1000-148
OUTPUT IN INVERTER MODE	OUTPUT VOLTAGE	97-123 VAC (User selectable)	
	OUTPUT FREQUENCY	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)	1000 W	1000 W
	SURGE OUTPUT POWER (At Power Factor = 1)	2000 W	2000 W
OUTPUT IN BY-PASS MODE	PEAK EFFICIENCY (At full load)	87%	88%
	AC OUTPUT CONNECTIONS	Dual NEMA5-20R receptacles	
	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	
INPUT	CONTINUOUS OUTPUT POWER	Load to be limited to 1000 W. Protected by 12 A 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	1.14 A	0.55 A
	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	15 A	
	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	12 A Circuit Breaker		
COOLING	FORCED AIR COOLING	3 fans. Will switch on / off at specified values of load / temperature of internal hot spot	
COMPLIANCE	SAFETY	Meets UL60950-1 (Pending listing)	
	EMI / EMC	Meets FCC Part 15(B), Class B	
ENVIRONMENT	OPERATING TEMPERATURE RANGE	0 °C to + 50 °C	
	STORAGE TEMPERATURE RANGE	- 30 °C to 70 °C	
DIMENSIONS	(L X W X H), MM	482.6 X 43.5 X 345	482.6 X 43.5 X 345
	(L X W X H), INCHES	19 X 1.71 X 13.6	19 X 1.71 X 13.6
WEIGHT	KG	5.8	5.8
	LBS	12.7	12.7

NOTE: Specifications are subject to change without notice