



1500W  
samlexamerica®



**DC-AC Inverter**  
**Pure Sine Wave**

Model  
SA-1500-112  
SA-1500-124

### Design Features

- Higher upper DC input limit of 16 V allows higher charging voltages during equalization or, when using Lead Calcium batteries
- Advanced micro-controller
- Switch selectable output voltage: 100/110/115/120 VAC
- Switch selectable output frequency: 50/60 Hz
- Pure sine wave output (THD < 3%)
- Switch selectable Power Save Mode: No load power reduces to < 2 W till load of 2-15 W is sensed.
- Computer interfaced Remote Control using R5-232C / ASCII Code
- Optional wired remote control
- Input and output fully isolated
- 2 temperature controlled fans save power consumption
- LED bar graph for input voltage / output power; LEDs for fault indications



**2 YEAR WARRANTY**

	MODEL NO.	SA-1500-112	SA-1500-124
OUTPUT	OUTPUT VOLTAGE	100/110/115/120 VAC ± 5% (Switch Selectable)	
	OUTPUT FREQUENCY	50 / 60 Hz ± 0.05% (Switch Selectable)	
	TYPE OF OUTPUT WAVEFORM	Pure Sine Wave	
	TOTAL HARMONIC DISTORTION OF OUTPUT WAVEFORM	< 3%	
	CONTINUOUS OUTPUT POWER (At Power Factor = 1)	1500W	1500W
	SURGE OUTPUT POWER (At Power Factor = 1)	2000W	2000W
	PEAK EFFICIENCY (At full load)	85%	87%
	AC OUTPUT CONNECTIONS	Dual NEMA5-20R receptacles with GFCI protection	
INPUT	NOMINAL DC INPUT VOLTAGE	12 VDC	24 VDC
	DC INPUT VOLTAGE RANGE	11 to 16 VDC	22 to 32 VDC
	DC INPUT POWER AT NO LOAD (Power Save on)	< 1.5W	< 1.5W
	DC INPUT POWER AT NO LOAD (Power Save off)	< 15W	< 15W
	DC INPUT CONNECTIONS	Two 9.8 mm dia tubular holes with M-8 set screws	
POWER SAVE (SLEEP MODE)	BY SWITCH OR BY OPTIONAL REMOTE	Wake up power: 2 to 15W	Wake up time: 5 seconds
DISPLAY	INPUT VOLTAGE, OUTPUT POWER, STATUS	Status by LEDs; Input Voltage	Output Power by LED; Bar Graphs
REMOTE OPERATION	WIRED REMOTE CONTROL (Optional)	S-R5 with 10 ft. cable	
	THROUGH COMPUTER INTERFACE	RS-232C Serial Interface / ASCII Code	
PROTECTION	LOW DC INPUT VOLTAGE ALARM	10.2 VDC	20.4 VDC
	LOW DC INPUT VOLTAGE SHUTDOWN	9.5 VDC (Auto reset: 12.4 VDC)	19.3 VDC (Auto reset: 24.8 VDC)
	HIGH DC INPUT VOLTAGE SHUTDOWN	17.1 VDC (Auto reset: 15.8 VDC)	34.1 VDC (Auto reset: 31.5 VDC)
	SHORT CIRCUIT SHUTDOWN	Yes	
	OVERLOAD SHUTDOWN	Yes	
	GROUND FAULT SHUTDOWN	GFCI protected dual NEMA5-20R receptacles	
	OVER TEMPERATURE SHUTDOWN	Internal hot spot: 85°C (Auto reset 45°C)	
REVERSE POLARITY ON DC INPUT SIDE	Yes. Internal fuses will blow		
COOLING	FORCED AIR COOLING	2 temp. controlled fans sensed at internal hot spot: ON - 55°C; OFF - 45°C	
COMPLIANCE	SAFETY	UL listed to UL-458	
	EMI / EMC	Meets FCC Part 15(B), Class B	
ENVIRONMENT	OPERATING TEMPERATURE RANGE	0°C to + 40°C	
	STORAGE TEMPERATURE RANGE	- 30°C to + 70°C	
DIMENSIONS	(L x W x H), MM	390 x 275 x 105	
	(L x W x H), INCHES	15.4 x 10.8 x 4.1	
WEIGHT	KG	7.0	
	LBS	15.5	

NOTE: Specifications are subject to change without notice

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