



1000W  
samlexamerica



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

Model	SA-1000K-112
	12 VDC-110 VAC
	SA-1000K-124
	24 VDC-110 VAC

**Design Features**

- Pure sine wave output (THD < 3%)
- Switch selectable output frequency: 50 / 60 Hz
- Switch selectable Power Save Mode wherein the inverter shuts off non essential circuitry and reduces its no load self consumption till it sees a minimum programmed load (20 - 135 Watts)
- Optional wired remote controls for switching and monitoring the operation. Includes Ignition Lockout and Reverse Over-ride Function (ROF)
- Input and output are fully isolated
- Advanced micro-controller
- 1 load controlled cooling fan saves power consumption
- 3 tri-color LEDs display operational status and fault indications
- **Protections:** overload; short circuit; leakage; low and high DC input voltages; high temperature; reverse polarity
- **Safety:** UL listed to UL-458
- **EMC:** Complies with FCC Part 15(B), Class A



**2 YEAR WARRANTY**

	MODEL NO.	SA-1000K-112	SA-1000K-124
<b>OUTPUT</b>	OUTPUT VOLTAGE		110 VAC, +/- 5%
	OUTPUT FREQUENCY		50 / 60 Hz +/- 0.05% (Selected by Switch)
	TYPE OF OUTPUT WAVEFORM		Pure Sine Wave
	TOTAL HARMONIC DISTORTION OF OUTPUT WAVEFORM		< 3%
	CONTINUOUS OUTPUT POWER (At Power Factor = 1)	1000 W	1000 W
	SURGE OUTPUT POWER (At Power Factor = 1)	2000 W	2000 W
	PEAK EFFICIENCY (At full load)	89%	92%
	AC OUTPUT CONNECTIONS	Dual NEMA5-20R receptacles with GFCI protection	
<b>INPUT</b>	NOMINAL DC INPUT VOLTAGE	12 VDC	24 VDC
	DC INPUT VOLTAGE RANGE	10.5 to 15 VDC, +/- 0.2 VDC	21 to 30 VDC, +/- 0.4 VDC
	DC INPUT CURRENT AT NO LOAD (Power Save on)	0.25 A	0.15 A
	DC INPUT CURRENT AT NO LOAD (Power Save off)	1.43 A	0.75 A
	DC INPUT CONNECTIONS	M-8 screw / Wire with M-8 ring lug terminal	
<b>POWER SAVE (SLEEP MODE)</b>	ENABLED / DISABLED BY SWITCH	Wake up power: 20 to 135 W (switch selectable)	
<b>DISPLAY</b>	INPUT VOLTAGE, OUTPUT POWER, STATUS	By steady / flashing patterns of three, 3- color LEDs	
<b>REMOTE OPERATION</b>	WIRED REMOTE CONTROL (Simple version) (Optional)		SR-8 with 10 ft cable
	WIRED REMOTE CONTROL (Upgraded version) (Optional)	SR-6-12 with 10 ft cable	SR-6-24 with 10 ft. cable
<b>PROTECTION</b>	LOW DC INPUT VOLTAGE ALARM	10.5 VDC, +/- 0.2 VDC	21.0 VDC, +/- 0.4 VDC
	LOW DC INPUT VOLTAGE SHUTDOWN	10.0 VDC, +/- 0.2 VDC	20.0 VDC, +/- 0.4 VDC
	HIGH DC INPUT VOLTAGE SHUTDOWN	15.0 VDC, +/- 0.2 VDC	30.0 VDC, +/- 0.4 VDC
	SHORT CIRCUIT SHUTDOWN		Yes
	OVERLOAD SHUTDOWN		Yes
	GROUND FAULT SHUTDOWN		GFCI protected dual NEMA5-20R receptacles
	OVER TEMPERATURE SHUTDOWN		Yes
<b>COOLING</b>	REVERSE POLARITY ON DC INPUT SIDE	Yes. Internal fuses will blow	
	FORCED AIR COOLING	1 fan. Will switch on / off at specified values of load / temperature of internal hot spot	
<b>COMPLIANCE</b>	SAFETY	UL listed to UL-458	
	EMI / EMC	Meets FCC Part 15(B), Class A	
<b>ENVIRONMENT</b>	OPERATING TEMPERATURE RANGE	0 °C to + 40 °C	
	STORAGE TEMPERATURE RANGE	- 30 °C to 70 °C	
<b>DIMENSIONS</b>	(L X W X H), MM	383 x 182 x 88	
	(L X W X H), INCHES	15.08 x 7.17 x 3.46	
<b>WEIGHT</b>	KG	4	
	LBS	8.8	

NOTE: Specifications are subject to change without notice