



samlexamerica

# 3000W



## DC-AC Inverter Pure Sine Wave

Model
SA-3000K-112 12 VDC-110 VAC
SA-3000K-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 (40 - 280 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
- 2 load controlled cooling fans save 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:** Meets UL-458 (Pending listing)
- **EMC:** Complies with FCC Part 15(B), Class A

**FC 2 YEAR WARRANTY**

	MODEL NO.	SA-3000K-112	SA-3000K-124
<b>OUTPUT</b>	OUTPUT VOLTAGE		120 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)	3000 W	3000 W
	SURGE OUTPUT POWER (At Power Factor = 1)	6000 W	6000 W
	PEAK EFFICIENCY (At full load)	88%	91%
	AC OUTPUT CONNECTIONS	Dual NEMA5-20R receptacles with GFCI protection; Terminal strip for hardwiring	
<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)	0.55 A	0.35 A
	DC INPUT CURRENT AT NO LOAD (Power Save off)	3.0 A	1.6 A
	DC INPUT CONNECTIONS	M-8 bolt and nut / Wire with M-8 ring lug terminal	
<b>POWER SAVE (SLEEP MODE)</b>	ENABLED / DISABLED BY SWITCH	Wake up power: 40 to 280 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		Yes. Only for the GFCI protected dual NEMA5-20R receptacles
	OVER TEMPERATURE SHUTDOWN		Yes
REVERSE POLARITY ON DC INPUT SIDE		Yes. Internal fuses will blow	
<b>COOLING</b>	FORCED AIR COOLING	2 fans. Will switch on / off at specified values of load / temperature of internal hot spot	
<b>COMPLIANCE</b>	SAFETY	Meets 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	452 x 208 x 166	
	(L X W X H), INCHES	17.8 x 8.18 x 6.53	
<b>WEIGHT</b>	KG	9.8	
	LBS	22	

NOTE: Specifications are subject to change without notice

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