



DC-AC Inverter
Modified Sine Wave

Model
SAM-1000-12
 12 VDC
 115 VAC

Design Features

- Compact design
- Load controlled cooling fan
- Low battery input alarm
- Universal protection circuit: thermal, battery, overload, short circuit, earth fault
- Soft start technology
- Cool surface technology
- Low interference technology

2 YEAR WARRANTY



	MODEL NO.	SAM-1000-12
INPUT	BATTERY SYSTEM VOLTAGE	12 VDC
	NOMINAL INPUT VOLTAGE	12.5 VDC
	INPUT VOLTAGE RANGE	10.5 VDC to 15.0 (+/- 0.5) VDC
	INPUT CURRENT AT CONTINUOUS POWER	100A
	INPUT CURRENT AT NO LOAD	0.5A to 0.6A
OUTPUT	OUTPUT VOLTAGE WAVE FORM	Modified Sine Wave
	OUTPUT VOLTAGE	115 VAC
	OUTPUT VOLTAGE REGULATION	+ 10% / - 0%
	OUTPUT FREQUENCY	60 Hz ± 5%
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	1000W
	OUTPUT POWER, SURGE (< 1 SEC, RESISTIVE LOAD)	2000W
	PEAK EFFICIENCY (AT 50% OF CONTINUOUS POWER)	90%
USB CHARGING PORT	Not available	
PROTECTIONS	LOW INPUT VOLTAGE ALARM	Yes (10.8 VDC ± 0.3 VDC)
	LOW INPUT VOLTAGE SHUTDOWN	10.5 VDC ± 0.5 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	Yes (> 15.5 VDC ± 0.2 VDC)
	OVERLOAD & GROUND FAULT SHUT DOWN	Yes (Latches in shutdown condition. Manual reset by switching OFF and switching ON the ON/OFF Switch)
	OVER TEMPERATURE SHUTDOWN	Internal Hot Spot 88°C to 115°C. Auto-reset when cools down by 10°C to 15°C.
	COOLING FAN, LOAD CONTROLLED, ON AT	28 to 32W
	LEAKAGE PROTECTION	Yes (Shutdown)
	INPUT FUSE, 32 V	120A (4 x 30A)
CONNECTIONS	DC INPUT CONNECTION	Nut & Bolt, M9
	AC OUTPUT - No OF NEMA5-15R RECEPTACLES	2
	REMOTE CONTROL PORT	Yes
GENERAL	OPERATING TEMPERATURE RANGE	0°C to 25°C / 32°F to 77°F at 100% loading; 26°C to 35°C / 78.8°F to 95°F at 80% loading
	OPERATING HUMIDITY	< 80%
	NEUTRAL TO CHASSIS BONDING	No. Neutral is floating
	DIMENSIONS, MM (W x D x H)	180 x 250 x 59
	DIMENSIONS, INCHES (W x D x H)	7.1 x 9.84 x 2.32
	WEIGHT, KG	1.69
WEIGHT, LB	3.72	

NOTE: Specifications are subject to change without notice