



**DC-AC Inverter**  
**Modified Sine Wave**

Model  
**SAM-250-12**  
 12 VDC- 115 VAC

### Design Features

- USB charging port: 5 VDC, 2.1A
- Compact design with cigar lighter plug included
- Load controlled cooling fan
- Low battery input alarm
- Universal protection circuit: thermal, battery, overload, short circuit, earth fault
- Soft start technology
- Cool surface technology
- Power save mode
- Low interference technology



**2 YEAR WARRANTY**

	MODEL NO.	SAM-250-12
INPUT	BATTERY SYSTEM VOLTAGE	12 VDC
	NOMINAL INPUT VOLTAGE	12.5 VDC
	INPUT VOLTAGE RANGE	> 10.8 VDC to < 15.4 VDC
	INPUT CURRENT AT CONTINUOUS POWER	22.3A to 24.2A
	INPUT CURRENT AT NO LOAD	0.2A to 0.3A
OUTPUT	OUTPUT VOLTAGE WAVE FORM	Modified Sine Wave
	OUTPUT VOLTAGE	115 VAC
	OUTPUT VOLTAGE REGULATION	+10% / - 2%
	OUTPUT FREQUENCY	60 Hz ± 5%
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	250W
	OUTPUT POWER, SURGE (< 1 SEC, RESISTIVE LOAD)	500W
	PEAK EFFICIENCY (AT 50% OF CONTINUOUS POWER)	90%
	USB CHARGING PORT	5 VDC, 2.1A
PROTECTIONS	LOW INPUT VOLTAGE ALARM	Yes (10.8 ± 0.3 VDC)
	LOW INPUT VOLTAGE SHUTDOWN	10.5 ± 0.3 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	Yes. (> 15.5 VDC)
	OVERLOAD SHUT DOWN	Yes (Latches in shutdown condition. Manual reset by switching off and switching on the ON /OFF Switch)
	OVER TEMPERATURE SHUTDOWN	Yes (Auto reset)
	COOLING FAN, LOAD CONTROLLED, ON AT	8 to 12W
	LEAKAGE PROTECTION	Yes (Shutdown)
	INPUT FUSE, 32V	30A
CONNECTIONS	INPUT CONNECTION	Nut and Bolt
	OUTPUT CONNECTION - No OF NEMA5-15R RECEPTACLES	1
	REMOTE CONTROL PORT	No
GENERAL	OPERATING TEMPERATURE RANGE	0 to 25°C at 100% loading; 26°C to 35°C at 80% loading
	OPERATING HUMIDITY	< 80%
	NEUTRAL TO CHASSIS BONDING	No. Neutral is floating
	DIMENSIONS, MM (L x W x H)	150 x 114.4 x 46
	DIMENSIONS, INCHES (L x W x H)	5.9 x 4.5 x 1.8
	WEIGHT, KG	0.42
	WEIGHT, LB	0.92