



**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	25A
	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%
PROTECTIONS	USB CHARGING PORT	5 VDC, 2.1A
	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)
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	