



samlexamerica®

# 450W



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

Model  
**SAM-450-12**  
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-450-12
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	45A
		INPUT CURRENT AT NO LOAD	0.25A to 0.35A
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)	450W
		OUTPUT POWER, SURGE (< 1 SEC, RESISTIVE LOAD)	900W
PROTECTIONS		PEAK EFFICIENCY (AT 50% OF CONTINUOUS POWER)	90%
		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
CONNECTIONS		LEAKAGE PROTECTION	Yes (Shutdown)
		INPUT FUSE, 32V	70A (2 X 35A)
		INPUT CONNECTION	Nut and Bolt
		OUTPUT CONNECTION - No OF NEMA5-15R RECEPTACLES	2
GENERAL		REMOTE CONTROL PORT	No
		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)	151 x 154 x 56.5
		DIMENSIONS, INCHES (L x W x H)	6.0 x 6.1 x 2.2
		WEIGHT, KG	0.6
	WEIGHT, LB	1.3	

NOTE: Specifications are subject to change without notice

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