



**samlex**america®

# 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	41.3A to 43.3A
		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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