

**2 YEAR WARRANTY** 

## samlexamerica

## DC-AC Inverter Modified Sine Wave

Model SAM-450-12E 12 VDC - 230 VAC

## **Design Features**

SAM-450-12E

12 VDC

- Modified Sine Wave output
- Soft Start Technology prevents shut down due to over current on cold start of AC loads
- USB charging port: 5V, 500 mA
- Load controlled fan saves power during low load conditions
- Protection against short circuit, overload, low and high DC input voltages, over temperature and leakage
- Light weight and compact aluminum enclosure

INPUT		
	NOMINAL INPUT VOLTAGE	12.5 VDC
	INPUT VOLTAGE RANGE	> 10.5 VDC to < 15.5 VDC
	INPUT CURRENT AT CONTINUOUS POWER	41.3 A to 43.3 A
	INPUT CURRENT AT NO LOAD	0.25 A to 0.35 A
	DC SIDE GROUNDING	DC Negative (-) input terminal bonded to chassis
OUTPUT	OUTPUT VOLTAGE WAVE FORM	Modified Sine Wave
	OUTPUT VOLTAGE; FREQUENCY	230 VAC + 10% / -2%; 50 Hz ± 5%
	AC OUTPUT SIDE GROUNDING	Both AC current carrying conductors isolated from chassis
	OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	450 W
	OUTPUT POWER, SURGE (< 1 SEC, RESISTIVE LOAD)	900 W
	PEAK EFFICIENCY (AT 50% OF CONTINUOUS POWER)	90%
	USB CHARGING PORT	5 VDC, 500mA
PROTECTIONS	LOW INPUT VOLTAGE ALARM	10.8 VDC. Auto reset at > 10.8 VDC
	LOW INPUT VOLTAGE SHUTDOWN	10.5 VDC. Auto reset at 11.5 VDC
	HIGH INPUT VOLTAGE SHUTDOWN	15.5 VDC. Auto reset at < 15.5 VDC
	OVERLOAD AND LEAKAGE SHUT DOWN	Latches in shutdown condition. Manual reset by switching off the ON OFF switch, waiting for 3 minutes and switching on the ON/OFF switch
	COOLING	Load controlled fan. Comes on at 8 to 12W
	OVER TEMPERATURE SHUTDOWN	By sensing internal hot spot. Auto reset on cooling
	INTERNAL INPUT FUSE, 32 V	70 A (2 X 35 A)
	BATTERY INPUT AC OUTPUT	Red (+) & Black (-) thumb screws; M4 size Universal outlet

MODEL NO.

**BATTERY SYSTEM VOLTAGE** 

NOTE: Specifications are subject to change without notice

CONNECTIONS

GENERAL

**USB** connector

0.6 kg.; 1.3 lb.

Battery input cable set with battery clamps

0 to 25 C at 100% loading; 26°C to 35°C at 80% loading

154 x 154 x 46 mm; 6 x 6.1 x 1.8 inches (size includes protrusions)

Battery input cable set with cigar plug

**USB OUTPUT** 

WEIGHT

**ACCESSORIES SUPPLIED** 

**OPERATING HUMIDITY** 

**DIMENSIONS (L x W x H)** 

**OPERATING TEMPERATURE RANGE**