



450W



DC-AC Inverter  
Modified Sine Wave

Model  
SAM-450-12  
12 VDC - 115 VAC

Design Features

- USB charging port: 5 VDC, 500 mA
- 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		10.5 to 15.0 (+/- 0.5) 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
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)		450 W
	OUTPUT POWER, SURGE (< 1 SEC, RESISTIVE LOAD)		900 W
	PEAK EFFICIENCY (AT 50% OF CONTINUOUS POWER)		90%
PROTECTIONS	USB CHARGING PORT		5 VDC, 500mA
	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 12 W
	LEAKAGE PROTECTION		Yes (Shutdown)
CONNECTIONS	INPUT FUSE, 32 V		70 A (2 X 35 A)
	INPUT CONNECTION		Nut and Bolt
	OUTPUT CONNECTION - No OF NEMA5-15R RECEPTACLES		2
	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)		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