



## DC-AC Inverter Modified Sine Wave

Model  
SAM-100-12  
12 VDC - 115 VAC

### Design Features

- Light weight, compact, highly portable
- Easy to install and operate
- 2.1 Amp USB Charging Port (compatible with all new release smart phones)
- Fan cooled
- Cool surface technology
- Soft start technology
- Low battery input alarm
- Universal protection circuit – thermal, battery, overload, short circuit & earth fault

**2 YEAR LIMITED WARRANTY**



#### MODEL NO. SAM-100-12

INPUT	<b>BATTERY SYSTEM VOLTAGE</b>	12 VDC
	<b>NOMINAL INPUT VOLTAGE</b>	13.8 VDC
	<b>INPUT VOLTAGE RANGE</b>	10.5 ± 0.3 VDC to 15.5 ± 0.3 VDC
	<b>MAXIMUM INPUT CURRENT</b>	10A at 13.8 VDC
	<b>INPUT CURRENT AT NO LOAD</b>	< 0.35A
OUTPUT	<b>OUTPUT VOLTAGE WAVE FORM</b>	Modified Sine Wave
	<b>OUTPUT VOLTAGE (FREQUENCY)</b>	115 VAC (108 to 127 VAC); 60 Hz (56 to 64 Hz)
	<b>OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)</b>	100W
	<b>OUTPUT POWER, SURGE (&lt;1 SEC., RESISTIVE LOAD)</b>	200W
	<b>PEAK EFFICIENCY</b>	> 85%
PROTECTIONS	<b>USB CHARGING PORT</b>	Connector Type "A": 5 VDC, 2.1A
	<b>LOW INPUT VOLTAGE SHUTDOWN</b>	10.5 VDC ± 0.3 VDC. Auto reset at 11.6 VDC ± 0.3 VDC
	<b>HIGH INPUT VOLTAGE SHUTDOWN</b>	15.5 VDC ± 0.3 VDC. Auto reset at 15.2 VDC ± 0.3 VDC
	<b>OVERLOAD AND GROUND FAULT SHUT DOWN</b>	Overload: > 125W Ground Fault Leakage Current Limit: 4 to 6mA Latches in shutdown condition. Manual reset: Remove the inverter from the 12V Power Outlet. Wait for 3 min and re-insert firmly.
	<b>OVER TEMPERATURE SHUTDOWN</b>	Yes. Auto reset on cooling down.
	<b>COOLING FAN</b>	Always ON
OUTLETS	<b>DC INPUT</b>	12V Power Plug (Cigar Plug)
	<b>AC OUTPUT</b>	One NEMA5-15R Outlet
	<b>INPUT FUSE: INSIDE TOP OF THE 12V POWER PLUG PORTION</b>	12A, 250V (Fast Acting, Type AGC-12; Dimensions: 0.25" x 1.25")
GENERAL	<b>MONITORING: STATUS INDICATION</b>	GREEN LED: ON - Normal; OFF - Shut Down
	<b>OPERATING TEMPERATURE RANGE</b>	0°C to 25°C / 32°F to 77°F at 100% loading; 26°C to 35°C / 78.8°F to 95°F at 80% loading
	<b>OPERATING HUMIDITY</b>	< 80%; Non-condensing
	<b>DIMENSIONS (W X D X H)</b>	60 x 129 x 36.5 mm / 2.36 x 5.08 x 1.44 in
	<b>WEIGHT</b>	0.136 kg / 0.3 lb
	<b>SAFETY COMPLIANCE</b>	Intertek-ETL Listed Conforms to UL Standard 458