



# samlex america 250W



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

Model  
SAM-250-12  
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



MoDEl No.		SAM-250-12
INPUT	BATTERY SYSTEM VoITAgE	12 VDC
	NoMINAl INPUT VoITAgE	12.5 VDC
	INPUT VoITAgE RANGe	10.5 to 15.0 (+/- 0.5) VDC
	INPUT CURRENT AT CoNTINUoUS PoWER	22.3 A to 24.2 A
	INPUT CURRENT AT No IoAD	0.2 A to 0.3 A
oUTPUT	oUTPUT VoITAgE WAVE FoRM	Modified Sine Wave
	oUTPUT VoITAgE	115 VAC
	oUTPUT VoITAgE REgUIATIoN	+10% / - 2%
	oUTPUT FREqUENCY	60 Hz +/- 5%
	oUTPUT PoWER, CoNTINUoUS (RESISTIVE IoAD)	250 W
	oUTPUT PoWER, SURgE (< 1 SEC, RESISTIVE IoAD)	500 W
	PEAK EFFICIENCY (AT 50% oF CoNTINUoUS PoWER)	90%
PRoTECTIoNS	USB ChARGIng PoRT	5 VDC, 500 mA
	loW INPUT VoITAgE AlARM	Yes (10.8 + / - 0.3 VDC)
	loW INPUT VoITAgE ShUTDoWN	10.5 +/- 0.3 VDC
	hIgh INPUT VoITAgE 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, IoAD CoNTRoLlED, oN AT	8 to 12 W
	IEAkAgE PRoTECTIoN	Yes (Shutdown)
CoNNECTIoNS	INPUT CoNNECTIoN	Nut and Bolt
	oUTPUT CoNNECTIoN - No oF NEMA5-15R RECEPTACIES	1
	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%
	NEUTRAI To ChASSIS BoNDING	No. Neutral is floating
	DIMENSIoNS, MM (l x W x h)	150 x 114.4 x 46
	DIMENSIoNS, INChES (l x W x h)	5.9 x 4.5 x 1.8
	WEIghT, kg	0.42
WEIghT, lB	0.92	

NoTE: Specifications are subject to change without notice