



samlexamerica®

5000W



DC-AC Inverter
Modified Sine Wave Inverter

Model
SMH-5000X-12
12 VDC - 115 VAC

Design Features

- High power to weight & size ratio—compact and light weight.
- High efficiency and low no-load current draw.
- LCD display for: input voltage, output level, and fault message.
- Heavy duty and installation-friendly DC input terminals.
- Samlex Hypersurge™ technology to easily start high-surge loads.
- Load and temperature-controlled, smart variable speed cooling fan.
- Cool-Surface technology.
- Universal Protection circuit for low or high DC input voltage, overload or short circuit, and over temperature.
- Remote 1-wire ON/OFF control for ignition or switch start.

2 YEAR LIMITED WARRANTY



INVERTER PARAMETER	SMH-5000X-12
INPUT	
BATTERY SYSTEM VOLTAGE	12 VDC
NOMINAL INPUT VOLTAGE	12.5 VDC
INPUT VOLTAGE RANGE	Between 10.0 +/- 0.3 VDC and 16.0 +/- 0.3 VDC
INPUT CURRENT AT CONTINUOUS POWER	500 A (Max)
INPUT/IDLE CURRENT AT NO LOAD	<0.9 A
OUTPUT	
OUTPUT VOLTAGE WAVE FORM	Modified Sine Wave
OUTPUT VOLTAGE	115 VAC ± 0.5 VAC
OUTPUT FREQUENCY	60 Hz ± 5%
OUTPUT POWER, CONTINUOUS (RESISTIVE LOAD)	5,000 W
OUTPUT POWER, SURGE (<1 SEC., RESISTIVE LOAD)	10,000 W
PEAK EFFICIENCY	>90%
PROTECTIONS	
LOW INPUT VOLTAGE ALARM	10.5 VDC ± 0.3 VDC (Auto-reset)
LOW INPUT VOLTAGE SHUTDOWN	10.0 VDC ± 0.3 VDC (Auto-reset)
HIGH INPUT VOLTAGE SHUTDOWN	16.0 VDC ± 0.3 VDC (Auto-reset)
GROUND FAULT/OVERLOAD/SHORT CIRCUIT SHUTDOWN	Yes. Auto-reset.
OVER TEMPERATURE SHUTDOWN	Auto-reset when cools down by 10°C to 15°C
COOLING FAN	Load and temperature-controlled, smart variable speed fan
DC INPUT FUSE	User to install externally
CONNECTIONS	
DC INPUT CONNECTIONS	2x 8.5mm diameter hole per each terminal
AC OUTPUT	4 NEMA 5-15R Individual Outlets, Electronically Fused (Ganged) with Auto-reset
AC OUTPUT – HARDWIRE TERMINAL	YES
REMOTE CONTROL PORT	YES
WIRED ON / OFF CONTROL	YES, 1-wire input
GENERAL	
SAFETY COMPLIANCE	ETL Listed to UL 458 and CSA C22.2 No. 107.1
OPERATING TEMPERATURE RANGE	-25 °C to +50 °C (-13 °F to 122 °F); Output derated above 40 °C (104 °F)
OPERATING HUMIDITY	< 80 %
CHASSIS BONDING	Chassis bonded to AC socket/ terminal ground
DIMENSIONS (W X D X H) MM	230 x 345 x 134 mm
DIMENSIONS (W X D X H) INCHES	9.05" x 13.6" x 5.3" in
Weight, KG / LBS	6.5 kg / 14.33 lbs

NOTE: Specifications are subject to change without notice.

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