



The MMS Series Inverter/Charger

For Mobile Applications



The MMS Series Inverter/Charger provides pure sine wave power for smaller energy needs.

MODEL NUMBERS

- MMS1012

AVAILABLE FOR

- Marine Systems
- RV Systems

AVAILABLE ACCESSORIES

- Fuse Blocks
- ME-RC Remote
- MM-RC Remote



The Powerful Difference

A New, Cost Effective Pure Sine Wave Inverter/Charger from Magnum Energy

The MMS Series Inverter/Charger is a pure sine wave inverter providing a cost effective solution for those with smaller power needs in mobile applications. Versatile, easy-to-use, and lightweight, the MMS Series provides a reliable base for your energy system.

Power Factor Corrected (PFC)

Charger: Our PFC charger is built into all of our inverter chargers. It uses less energy from a generator than a standard charger – using only 7.5 amps per 50 amps versus 12.5 amps used by standard chargers.

Safe and reliable: The MMS Series is ETL Listed to the stringent requirements of UL/cUL 458 and CSA C22.2 #107.1-01 for mobile use.

Attractive styling: The modern, hourglass case, paired with the die cast aluminum base combines form with function, creating an attractive unit that uses its base as a heat sink for superior high temperature operation.

Features

You asked and Magnum listened. The MMS Series Inverter/Charger is loaded with features:

Standard transfer relay:

The standard 20 amp transfer relay will pass AC power through the inverter when using shore or generator power.

Low/high battery protection:

If your battery voltage reaches below 10 VDC or above 15.5 VDC, the MMS Series will automatically shut down.

Versatile mounting: Mount the MMS Series on a shelf, bulkhead, or even upside down.

Fan cooled: The MMS Series is fan cooled, enabling the unit to work well in confined spaces. If the inverter does exceed its temperature limits, it will automatically shut down and then restart when it cools down.

Current overload protection: The MMS Series will automatically shut down if its output wattage is exceeded or it detects a short in the wiring, saving the unit from costly damage.

Convenient switches:

The MMS Series comes with an on/off front-mounted switch with an easy-to-read LED indicator.

Circuit breaker protection:

This model comes with built in input and output circuit breakers for ease of installation.

Battery temp sensor:

The standard battery temp sensor monitors temperatures from 0 - 50° C.

Buy with ease: The MMS Series is backed by a two-year (24-month) parts and labor warranty.

Accessories and Options*

Remote control: The optional ME-RC and MM-RC remotes are available for the MMS Series. A four wire phone jack comes standard with the unit to connect the remote.

*For more detailed information and specifications on these accessories, please see the accessories data sheet.



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Specifications

MMS1012

Inverter Specifications	
Input battery voltage	9 to 17 VDC
Nominal AC output voltage	120 VAC \pm 5%
Output frequency and accuracy	60 Hz \pm 0.005%
Total Harmonic Distortion (THD)	< 5%
1 msec surge current (amps AC)	38
100 msec surge current (amps AC)	21
5 sec surge power (real watts)	1750
30 sec surge power (real watts)	1600
5 min surge power (real watts)	1200
30 min surge power (real watts)	1050
Continuous power output at 25° C	1000 VA
Rated input battery current	102 ADC
Inverter efficiency (peak)	87%
Transfer time	16 msec
Search Mode	.3 ADC
No Load (120 VAC output)	1.5 ADC
Waveform	Pure Sine Wave
Charger Specifications	
Continuous output at 25° C	50 ADC
Charger efficiency	84%
Power factor	> 0.95
Input current at rated output (AC amps)	7
General Features and Capabilities	
Transfer relay capability	20 AAC (input current for charging and pass through)
Battery temperature compensation	Yes, standard temp sensor (battery temp 0 – 50° C)
Remote available (optional)	Yes, MM-RC, ME-RC
Internal cooling	0 to 59 cfm variable speed
Overcurrent protection	Yes, with two overlapping circuits
Overtemperature protection	Yes, on transformer and MOSFETS
On/Off with status indicator	Yes, front mounted and easily accessible
Low battery cutout	10 VDC, adjustable with the ME-RC remote
AC output and input	Hardwire
Output circuit breaker	12 A switchable
Input circuit breaker	20 AAC
Listings	ETL Listed to UL/cUL458, CSA C22.2 #107.1-01, meets KKK-A-1822E standard
Warranty	Two years
Environmental Specifications	
Operating temperature	-20° C to +60° C (-4° F to 140° F)
Nonoperating temperature	-40° C to +70° C (-40° F to 158° F)
Operating humidity	0 to 95% RH non condensing
Physical Specifications	
Dimensions (l x w x h)	16.6" x 8.4" x 4.7" (42 cm x 21 cm x 12 cm)
Mounting	Shelf (top or bottom up) or bulkhead (vents up)
Weight	20 lb (9.1 kg)
Max operating altitude	15,000' (4570 m)
Construction	ABS plastic top and cast aluminum bottom

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Testing for specifications at 25° C
Specifications subject to change without notice.
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