

## The MMS-E Series Pure Sine Wave Inverter/Charger



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### MODEL NUMBERS

- MMS912E

### AVAILABLE FOR

- Renewable Energy Systems
  - Off-grid Power
  - Back-up Power
- Marine Systems
- Caravan Systems
- Truck Systems

### AVAILABLE ACCESSORIES

- DC Load Disconnect
- Fuse Blocks
- Remote - ME-RC
- Remote - ME-ARC
- Remote - MM-RC
- Smart Battery Combiner

The Powerful Difference

The MMS-E Series Inverter/Charger is a pure sine wave inverter providing a cost effective solution for those with smaller power needs. Versatile, easy-to-use, and lightweight, the MMS-E 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 25-30% less AC current than standard chargers.

**Safe and reliable:** The MMS-E Series is listed to the stringent CE requirements, ensuring the inverter/charger is safe and reliable.

**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

**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 17 VDC, the MMS-E Series will automatically shut down.

**Versatile mounting:**

Mount the MMS-E Series on a shelf, wall, or even upside down.

**Fan cooled:** The MMS-E 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-E 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-E 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-E Series is backed by a two-year (24-month) parts and labor warranty.



## MMS-E Series Specifications

### MMS912E

#### Inverter Specifications

Input battery voltage	9 to 17 VDC
Nominal AC output voltage	230 VAC $\pm$ 5%
Output frequency and accuracy	50 Hz $\pm$ 0.1 Hz
Total Harmonic Distortion (THD)	< 5%
1 msec surge current (amps AC)	30
100 msec surge current (amps AC)	7.5
5 sec surge power (real watts)	1600
30 sec surge power (real watts)	1250
5 min surge power (real watts)	1200
30 min surge power (real watts)	1100
Continuous power output at 25° C	900 VA
Maximum continuous input current	120 ADC
Inverter efficiency (peak)	87%
Transfer time	~ 20 ms
Search mode (typical)	0.4 ADC at 12.6 V
No load (230 VAC output, typical)	19 watts at 12.6V
Waveform	Pure Sine Wave

#### Charger Specifications

Continuous output at 25° C	40 ADC
Charger efficiency (peak)	80%
Power factor	> 0.95
Input current at rated output (AC amps)	3

#### General Features and Capabilities

Transfer relay capability	20 AAC (input current for charging and pass through)
Battery temperature compensation	Yes, 4.6 m (15') Battery Temp Sensor standard
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	Hardwire
AC input	Hardwire
Output circuit breaker	7 A switchable
Input circuit breaker	8 AAC
Listings	Listed to CE
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)	42 cm x 21 cm x 12 cm (16.6" x 8.4" x 4.7")
Mounting	Shelf (top or bottom up) or wall (vents up)
Weight	10.4 kg (23 lb)
Shipping weight	11.3 kg (25 lb)
Max operating altitude	4570 m (15,000')
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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**Authorized Magnum Dealer**

**The Powerful Difference**