



## The MM-E Series Inverter/Charger



Magnum Energy now offers the MM-E Series Inverter/Charger for 230 VAC / 50 Hz installations. The MM-E Series comes with all of the features you've come to expect from a Magnum product, including:

**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.

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

**Convenient switches:** All models come with an on/off inverter-mounted switch with an easy-to-read LED indicator.

### MODEL NUMBERS

- MM1012E
- MM1324E

### AVAILABLE FOR

- Renewable Energy Systems
- Off-grid Power
- Back-up Power

### AVAILABLE ACCESSORIES

- Battery Monitor Kit
- Fuse Blocks
- Remotes - MM-RC/ME-RC

### Features

**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.

**Fan cooled:** The MM-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.

**Versatile mounting:** Mount the MM-E Series on a shelf, wall, or even upside down.

**Battery and inverter protection:** The MM-E Series protects your batteries and itself with low battery, high battery, current overload, and circuit breaker protection.



## MM-E Series Inverter/Charger Specifications

	MM1012E	MM1324E
<b>Inverter Specifications</b>		
Input battery voltage range	9 - 16 VDC	18 - 32 VDC
Nominal AC output voltage	230 VAC $\pm$ 5%	230 VAC $\pm$ 5%
Output frequency and accuracy	50 Hz $\pm$ 0.4 Hz	50 Hz $\pm$ 0.4 Hz
1 msec surge current (amps AC)	21	42
100 msec surge current (amps AC)	11	14
5 sec surge power (real watts)	1750	2600
30 sec surge power (real watts)	1600	2100
5 min surge power (real watts)	1350	1850
30 min surge power (real watts)	1180	1650
Continuous power output at 25° C	1000 VA	1300 VA
Maximum continuous input current	133 ADC	87 ADC
Inverter efficiency (peak)	87%	87%
Transfer time	30 ms	30 ms
Search mode (typical)	< 6 watts	< 8 watts
No load (230 VAC output, typical)	16 watts	18 watts
Waveform	Modified Sine Wave	Modified Sine Wave
<b>Charger Specifications</b>		
Continuous output at 25° C	50 A	40 A
Charger efficiency (peak)	84%	83%
Power factor	> 0.95	> 0.95
Input current at rated output (AC amps)	3.5	5.5
<b>General Features and Capabilities</b>		
Transfer relay capability	20 AAC	
Five stage charging capability	Bulk, Absorb, Float, Equalize (requires remote), and Battery Saver™	
Battery temperature compensation	Yes, 15 ft Battery Temp Sensor standard	
Internal cooling	0 to 59 cfm variable speed	
Overcurrent protection	Yes, with two overlapping circuits	
Overtemperature protection	Yes on transformer, MOSFETS, and battery	
Conformal coating on PCB's for corrosion protection	Yes	
Powder coated chassis & top for corrosion protection	Yes	
Stainless steel fasteners for corrosion protection	Yes	
Output circuit breaker	7 AAC	
Input circuit breaker	8 AAC	
Listings	None	
Warranty	Two years	
<b>Environmental Specifications</b>		
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	
<b>Physical Specifications</b>		
Dimensions (h x w x d)	15.0" x 6.5" x 5.0" (38.1 cm x 16.5 cm x 12.7 cm)	
Mounting	Shelf (top or bottom up) or wall	
Weight	23 lb (10.4 kg)	
Shipping weight	25 lb (11.3 kg)	
Max operating altitude	15,000' (4570 m)	

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

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**The Powerful Difference**