

The MM-E Series Inverter/Charger



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

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 $0 - 50^{\circ}$ C.

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

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 |
|---|---|-----------------------------|
| Inverter Specifications | | |
| Input battery voltage range | 9 - 16 VDC | 18 - 32 VDC |
| Nominal AC output voltage | 230 VAC ± 5% | 230 VAC ± 5% |
| Output frequency and accuracy | 50 Hz ± 0.4 Hz | 50 Hz ± 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 |
| | | |
| Charger Specifications | | 40.4 |
| 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 |
| General Features and Capabilities | | |
| Transfer relay capability | 20 AAC | |
| | Bulk, Absorb, Float, Equalize (requires remote), and Battery Saver™ | |
| Five stage charging capability | Bulk Absorb Float Foualize (require | s remote) and Battery Saver |
| Five stage charging capability Battery temperature compensation | | |
| Battery temperature compensation | Yes, 15 ft Battery Temp Sensor standa | |
| Battery temperature compensation Internal cooling | Yes, 15 ft Battery Temp Sensor standa 0 to 59 cfm variable speed | |
| Battery temperature compensation Internal cooling Overcurrent protection | Yes, 15 ft Battery Temp Sensor standa 0 to 59 cfm variable speed Yes, with two overlapping circuits | ard |
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Magnum Energy, Inc.

The Powerful Difference

Testing for specifications at 25° C Specifications subject to change without notice. August 2012, Rev E Part #64-0485 **Authorized Magnum Dealer**