



The RD-E Series Inverter/Chargers



Magnum Energy now offers the RD-E Series Inverter/Charger for 230 VAC / 50 Hz installations. The RD-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 RD-E Series models come with an on/off inverter-mounted switch with an easy-to-read LED indicator.

MODEL NUMBERS

- RD2624E
- RD4024E

AVAILABLE FOR

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

AVAILABLE ACCESSORIES

- AGS
- Battery Monitor Kit
- Conduit Box
- DC Load Disconnect
- Fuse Blocks
- Ignition Switch Lockout
- Remote - ME-RC
- Remote Switch Adapter

Features

Easy-to-install: Install the RD-E Series in four easy steps. See your installation manual for specific instructions.

Versatile mounting: Mount the RD-E Series on a shelf or wall.

Multiple ports: The RD-E Series provides multiple ports, including an RS485 communication port for network expansion, and a remote port.

Accessible design: The extra large AC access cover with terminal screw block and 360° DC connection terminals with covers make this inverter easily accessible.

Buy with ease: The RD-E Series is backed by a two-year (24-month) limited warranty.



RD-E Series Inverter/Charger Specifications

| | RD2624E | RD4024E |
|--|---|--------------------|
| Inverter Specifications | | |
| Input battery voltage range | 18 - 31 VDC | 18 - 31 VDC |
| Nominal AC output voltage | 230 VAC \pm 5% | 230 VAC \pm 5% |
| Output frequency and accuracy | 50 Hz \pm 0.1 Hz | 50 Hz \pm 0.1 Hz |
| 1 msec surge current (amps AC) | 85 | 100 |
| 100 msec surge current (amps AC) | 22 | 40 |
| 5 sec surge power (real watts) | 4700 | 7500 |
| 30 sec surge power (real watts) | 4100 | 6750 |
| 5 min surge power (real watts) | 3350 | 6000 |
| 30 min surge power (real watts) | 2700 | 5500 |
| Continuous power output at 25° C | 2600 VA | 4000 VA |
| Rated input battery current at 25.2 VDC | 130 A | 222A |
| Inverter efficiency (peak) | 91% | 89% |
| Transfer time | 30 ms | 20 ms |
| Search mode (typical) | < 7 watts | < 8 watts |
| No load (230 VAC output, typical) | 22 watts | 32 watts |
| Waveform | Modified Sine Wave | Modified Sine Wave |
| Charger Specifications | | |
| Continuous output at 25° C | 75 A | 105 A |
| Charger efficiency (peak) | 87% | 85% |
| Power factor | > 0.95 | > 0.95 |
| Input current at rated output (AC amps) | 11.5 | 16 |
| General Features and Capabilities | | |
| Transfer relay capability | 30 AAC | |
| Five stage charging capability | Bulk, Absorb, Float, Equalize (requires remote), and Battery Saver™ | |
| Battery temperature compensation | Yes, 15 ft Battery Temp Sensor standard | |
| Remote available (optional) | Yes, ME-RC | |
| Internal cooling | 0 to 120 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 | NA | |
| Input circuit breaker | 30 AAC | |
| Listings | None | |
| 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 (h x w x d) | 13.75" x 12.65" x 8.0" (34.9 cm x 32.1 cm x 20.3 cm) | |
| Mounting | Shelf (top or bottom up) or wall | |
| Weight | 42 lb (19 kg) | 55 lb (25 kg) |
| Shipping weight | 47 lb (21.3 kg) | 60 lb (27.2 kg) |
| Max operating altitude | 15,000' (4570 m) | |

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The Powerful Difference

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

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