



## 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 - ME-ARC
- 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
<b>Inverter Specifications</b>		
Input battery voltage range	18 - 32 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)	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
Maximum continuous input current	172 ADC	267 ADC
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
<b>Charger Specifications</b>		
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
<b>General Features and Capabilities</b>		
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	
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	
<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)	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)	

**Magnum Energy, Inc.**

**The Powerful  
Difference**

Testing for specifications at 25° C  
 Specifications subject to change without notice.  
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For product or purchase inquiries contact:

