

RD-E SERIES | INVERTER/CHARGER

Introduction

Sensata Technologies 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 brand 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.



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.

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



Modified Sine Wave



24 Battery Voltage Options



2600-4000 VA Continuous Output Options



SPECIFICATIONS

	RD2624E	RD4024E
INVERTER SPECIFICATIONS		
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
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	
Internal cooling	0 to 120 cfm variable speed	
Overcurrent protection	Yes, with two overlapping circuits	
Overtemperature protection	Yes on transformer, MOSFETS, and battery	
Corrosion protection	Yes, PCB's conformal coated, powder coated chassis/top, and stainless steel fasteners	
Output circuit breaker	NA	
Input circuit breaker	30 AAC	
Listings	None	
Warranty	Two years	

ENVIRONMENTAL SPECIFICATIONS		
Temperature (Operating/Non-operating)	-20° C to +60° C (-4° F to 140° F) to -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 x 32.1 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)	



GENERAL NOTES

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

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Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

651-653-7000
 800-553-6418
InverterInfo@sensata.com

Power Conversion
www.magnum-dimensions.com