

R24-1500 & R24-1500G

Rectifier, +24 V DC, 1500 W

■ DC Power for
Business-Critical Continuity

Features and benefits

- High power density – up to 7.5 kW in a 3U high 19-inch shelf, and 9 kW in a 3U high 23-inch shelf, means more space for revenue-generating equipment
- Temperature-controlled cooling fan – reduces noise levels and increases fan longevity
- Full power 1500 W at 23.4 V output – enables the start of deep discharged battery systems
- 3 A current boost feature below 23.4 V – beneficial for reliable start-up, especially for non-battery systems
- High efficiency up to 92%
- Hot swappable – allows facilitate upgrades and repairs without shutting down the system
- Wide input voltage range
- Wide temperature operating range – operates in the most demanding environments with temperature changes up to +75°C /167°F
- Zone 4 seismic
- NEBS level 3 certified
- Compliant with global standards



The R24-1500 rectifier converts most standard AC supply voltages into stable nominal +24 V DC voltage that is adjustable to the needs of the application. The R24-1500 is a constant power type rectifier designed with the latest patented switch mode technology using DSP (Digital Signaling Processor) functionality for efficient operation. For a higher load capacity, the rectifier can be connected in parallel and intelligent controls can be added with the help of separate controllers.

R24-1500 & R24-1500G

Rectifier, +24 V DC, 1500 W

Technical Specifications, R24-1500 & R24-1500G

AC input

Input voltage, nominal	187 to 250 V AC
Input voltage, permitted variation	75 to 310 V AC
Line frequency	45 to 65 Hz
Max input current, incl. Inrush current	9 A
Power factor	>0,98 from 60 to 100% of capacity at nominal input
THD, Total harmonic distortion	<7% from 50 to 100% of capacity at nominal input

DC output

Output voltage, default	+27.6 VDC
Output voltage, adjustment range	-22 to -29 V DC
Output power	1500 W @ Vout > 23,4 V DC
Output power, derated for input voltage	See diagram
Output current	62 A
Output current limit set point	64 A
Efficiency	91% at full load, 91,5% from 40 to 70% load, peak 92%
Psophometric noise	<2mV
Temperature derating	See diagram

Control and monitoring

Rectifier alarm and signalling	Alarm and status reported via CAN bus to system Controller
Visual indications	Green LED – Normal operation Yellow LED – Alarm Red LED – Failure Flashing red LED – Fan failure

Environmental

Temperature range, normal operation	-40 to +75°C, -40 to +167°F
Temperature range, storage	-40 to +75°C, -40 to +167°F
Relative humidity	0 to 95%
Altitude	-60 to 4000 m, -200 ft to 13.000 ft
EMC	EN 300 386-2 class B, FCC part 15 class B
Safety	IEC 609 50, EN 609 50, UL 609 50

Mechanics

Dimensions (HxWxD)	133 x 85 x 279 mm, 5.25 x 3.35 x 11.0 inches
Weight	2,5 kg, 5,5 lbs

Other parts

Shelves and Controller units	See separate datasheets
------------------------------	-------------------------

Ordering information

Product name	Product code
Rectifier R24-1500	BML 435 010/1
Rectifier R24-1500G	BML 435 011/1

**Emerson Network Power
Energy Systems AB**
SE-141 82 Stockholm, Sweden
Phone: +46 8 721 60 00
Fax: +46 8 721 71 77

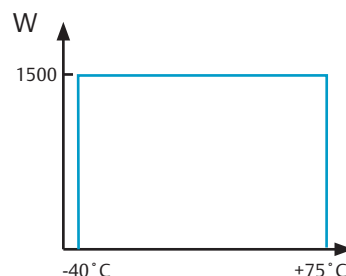
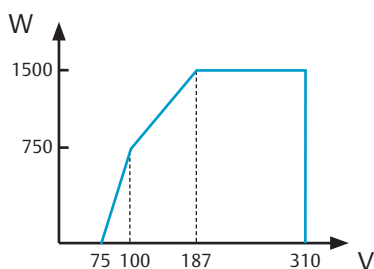
**Emerson Network Power
Energy Systems, North America**
1122 "F" Street, Lorain, OH 44052
Phone: 440-246-6999
Fax: 440-246-4876
www.emersonnetworkpower.com/energysystems/

**Emerson Network Power
Co Ltd., China**
No. 1 Kefa Rd., Science &
Industry Park
Nanshan District 518057,
Shenzhen, China
Phone: 86-755-860 108 08
www.emersonnetworkpower.com.cn

For global contact, visit:
www.emersonenergy.com

EN/LZT 145 233 RD

© Emerson Network Power Energy Systems 2007



Emerson Network Power.
The global leader in enabling
business-critical continuity.

- AC Power
- Connectivity
- DC Power
- Embedded Power
- Inbound Power
- Integrated Cabinet Solutions
- Outside Plant
- Precision Cooling
- Site Monitoring and Services

Emerson Network Power.com

Emerson Network Power and the Emerson Network Power logo are trademarks and service marks of Emerson Electric Co.
©2007 Emerson Electric Co.