

Vertiv™ eSure™ Rectifier

R48-3600E4



Benefits

- Lower operating cost with high-efficiency eSure™ rectifiers, 97.6%
- Optimize power efficiency at any load condition with ECO mode
- Save on climate system dimensioning with full output power, 3650 W, up to +55°C
- Operate your DC plant in the most demanding environments with wide input voltage range
- Rest assured with proven reliability that meets global safety standards no matter what the application or location demands



In addition to reducing power consumption and lowering operating cost, Vertiv™ eSure™ high-efficiency rectifiers offer superior performance and uncompromising reliability.

Description

The 3650W high-efficiency eSure™ rectifier is designed to convert standard AC supply voltages into stable nominal -48 VDC voltage that is adjustable to application needs. This constant power rectifier has a great power efficiency performance (97.6% peak). It can work in parallel with other Vertiv rectifiers and can easily replace e.g. R48-3500E3 rectifiers to help boost power system efficiency.

For a higher load capacity, rectifiers can be connected in parallel to support a variety of telecom applications. Remote management and control of the power system is enabled when combined with a Vertiv™ controller.

AC Input	R48-3600E4
Voltage	85 VAC to 305 VAC, 200 VAC to 250 VAC (nominal)
Frequency	45 Hz to 65 Hz
Maximum Current	21.8 A @ 176 VAC
Power Factor	>0.99 for 50%-100% load

DC Output	
Voltage	-42 VDC to -58 VDC
Maximum Power	3650 W @ 55°C & Vac >187 and 3650W @ 50°C & Vac>176
Maximum Current	76 A @ -48 VDC
Peak Efficiency	97.6%

Control and Monitoring	
Alarms and Signaling	Alarm and status reported via CAN bus to system controller
Visual Indications	Green LED: Normal Operation, Yellow LED: Alarm, Red LED: Failure

Environmental	
Operating Temperature	-20°C to 75°C / -4°F to +167°F
Storage Temperature	-40°C to 55°C / -40°F to +131°F
Relative Humidity	0 to 90%
Altitude	3000 m / 9843 ft at full power

Standards Compliance	
Safety	UL 62368-1, EN 62368-1, IEC 62368, BS EN 62368-1, GR1089, GR63, GR3108
EMC	ETSI EN300 386 V1.6.1, Class B. Other than telecom centers. FCC CFR 47 Part 15, Class B conducted and radiated EN55032, Class B conducted and radiated Telcordia GR-1089-CORE issue 7: 2017
Environment	REACH, RoHS, WEEE

Mechanics	
Dimensions (H x W x D)	41 × 84.5 × 330 mm / 1.61 × 3.33 × 13 inches
Weight	2 kg / 4.41 lbs

Ordering Information

Part Number	Description
1R483600E4	Vertiv™ eSure™ rectifier, -48 VDC, 3650 W

Vertiv.com | Vertiv Headquarters, 1050 Dearborn Drive, Columbus, OH, 43085, USA

© 2024 Vertiv Group Corp. All rights reserved. Vertiv™ and the Vertiv logo are trademarks or registered trademarks of Vertiv Group Corp. All other names and logos referred to are trade names, trademarks or registered trademarks of their respective owners. While every precaution has been taken to ensure accuracy and completeness here, Vertiv Group Corp. assumes no responsibility, and disclaims all liability, for damages resulting from use of this information or for any errors or omissions. Specifications, rebates and other promotional offers are subject to change at Vertiv's sole discretion upon notice.