



VERTIV™

eSURE™ RECTIFIER

R48-3200e2



Features and Benefits

Rectifier, 48 VDC, 3200 W

- Optimized depth-reduced footprint allows installation in short-depth racks and cabinets
- DSP (Digital Signaling Processor)-means fewer components, optimized operation and active load sharing for increased reliability
- High efficiency, 95%-reduces power consumption for lower operating costs
- Hot pluggable-facilitates future extensions
- Wide input voltage range-operates in the most demanding environments where input voltage changes
- Wide temperature operating range (-40°C / -40 °F to +75°C / 167°F) -meets the harshest climatic environment requirements

Description

The eSure™ R48-3200e2 rectifier converts standard AC supply voltages into stable nominal-48V DC voltage adjustable to the needs of the application. The R48- 3200e2 is a constant power rectifier designed with the latest patented switchmode technology using DSP (Digital Signaling Processor) functionality for efficient operation.

For a higher load capacity, rectifiers can be connected in parallel and intelligent control can be added with the help of a separate controller.



Technical Specifications, R48-3200e2

AC Input

Input Voltage, Nominal	200 to 250 VAC
Input Voltage, Permitted Variation	85 to 300 VAC
Line Frequency	45 to 65 Hz
Max Input Current	22 A
Power Factor	0.99
THD (Total Harmonic Distortion)	<5% from 50 to 100% of rated load

DC Output

Output Voltage, Adjustment Range	-42 to -58 VDC
Output Power	3200 W@Vout >48 VDC
Output Power, Derated for Input Voltage	See Diagram
Output Current	66.7 A
Output Current limit set Point	0 to 66.7 A
Efficiency	95% peak
Psophometric noise (system)	<2 mV at 70% max load
Temperature Derating	See diagram

Control and Monitoring

Rectifier Alarm and Signaling	Alarm and status reported via CAN bus to system Controller	
Visual Indications	Green LED:	Power On
	Yellow LED:	Protection
	Red LED:	Alarm
	Flashing Red LED:	Fan Failure

Environmental

Temperature Range, Operating	-40 to +75°C, -40 to +167°F
Temperature Range, Storage	-40 to +70°C, -40 to +158°F
Relative Humidity	0 to 95%
Altitude	2000 m, 6560 ft at full power
EMC	ETSI EN 300 386 class A
Safety	EN 60950

Mechanics

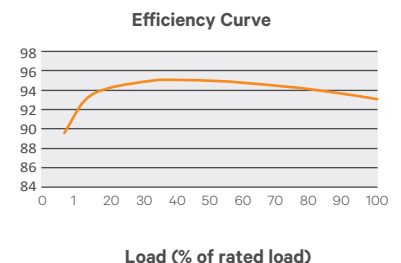
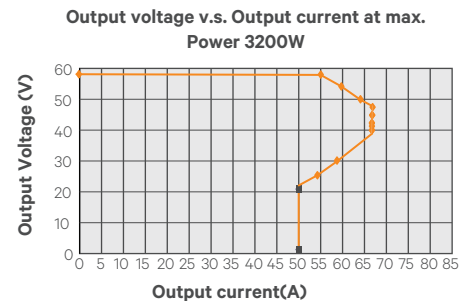
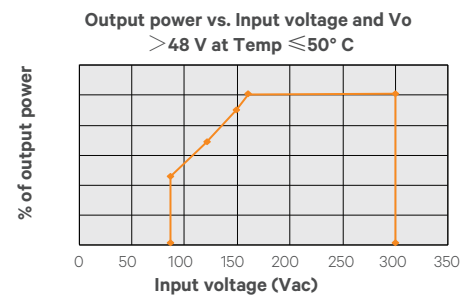
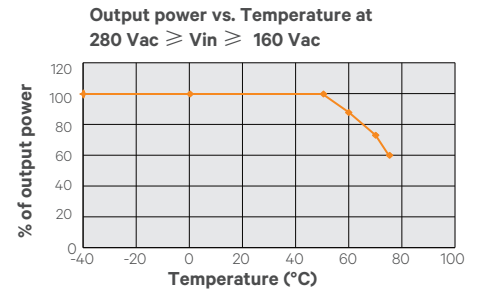
Dimensions (H x W x D)	132×85.3×293mm / 5.2×3.36×11.5 inches
Weight	3.5 kg / 7.7 lbs

Other Parts

Controller Units	See separate ACU+ and SCU+ datasheets
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Ordering Information

Part Number	Description
Description	Product Code
Rectifier 48V,3200W	1R483200e2





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