

E-SURE™ RECTIFIER

R48-5800A



KEY FEATURES

Rectifier -48 VDC, 5800 W

- DSP (Digital Signaling Processor)-means fewer components, optimized operation and active load sharing for increased reliability
- Delivers quality, performance and reliability no matter what the application or location demands
- High efficiency, up to 92% 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 from -40°C to +65°C / -40°F to +149°F meets the harshest climatic environment requirements

Description

The R48-5800A rectifier converts 380 to 415 VAC 3-phase supply voltages into stable nominal -48V DC voltage adjustable to the needs of the application. The R48-5800A is a constant power rectifier designed with the latest patented switch-mode technology using DSP (Digital Signaling Processor) functionality for efficient operation.

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



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Technical Specifications, R48-5800A

AC INPUT	
Input Voltage, Nominal	380 VAC
Input Voltage, Permitted Variation	260 VAC to 530 VAC
Line Frequency	45 Hz to 65 Hz
Max Input Current	12 A
Power Factor	0.99
THD (Total Harmonic Distortion)	<5%

DC OUTPUT	
Output Voltage, Adjustment Range	-42 VDC to -58 VDC
Output Power	5800 W @ Vout >48 VDC
Output Power, Derated for Input Voltage	See Diagram
Output Current	120 A
Output Current Limit Set Point	0 to 120 A
Efficiency	92.5%
Psophometric Noise (System)	<2 mV
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 = Normal Operation Yellow Led = Alarm Red Led = Failure Flashing Red Led = Fan Failure
Current Indicator	Red LED = Failure; Flashing Red Led = Fan Failure A 10-segment green LED is located on the front panel to represent output current, each segment represents 10 A.

ENVIRONMENTAL	
Temperature Range, Operating	-40°C to +65°C / -40°F to +149°F
Temperature Range, Storage	40°C to +80°C / -40°F to +176°F
Relative Humidity	0 to 95%
Altitude	2000 m / 6560 ft at full power
EMC	EN 300 386; class A
Safety	IEC 60950, EN 60950, UL 60950

MECHANICS	
Dimensions (H x W x D)	88 x 244 x 380 (mm) / 3.46 x 9.61 x 14.96 (inches)
Weight	<10 kg / 22 lbs

Ordering Information

PRODUCT CODE	DESCRIPTION
1R485800AXXX	Rectifier, 48 VDC, 5800 W

