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60 Amp Rectifier - Guardian FMPe30.48G

Guardian



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Shelf Installation Guide

CE Declaration

Product Information

The Guardian FMPe30.48G 60 amp rectifier incorporates resonant technology to Features and Options reduce component stresses, providing increased system reliability and a best-in- • High efficiency and energy saving class efficiency. The rectifier features a wide input operating voltage range to Leading power density of up to maximize power availability within demanding utility power environments.

These compact 60 amp rectifiers support up to 14.5kW in a IRU 23" shelf. A wide variety of • Thermal protection distribution options are available to provide the maximum system flexibility for a wide • Hot-swappable range of communications applications that demand efficiency, reliability, and flexibility including wireless base stations, remote switches, and broadband access.

- >95% typical efficiency
- 31.3W/in3
- Rugged input voltage range

- International standards compliance

THREE YEAR WARRANTY

SPECIFICATIONS		GUARDIAN FAMILY RECTIFIERS				
INPUT		Model Number ¹	Input Voltage	Output	Output Current ²	Max. Temp
Voltage	Operating Range: 85-275VAC			Power 2		
	Permitted variation: 85-300VAC (L-PE and N-PE <250VAC)	FMPe20.48	120VAC	1100W	22.9A @ 48V	55°C
Current	<12.7A @ 240VAC <17.9A @ 110VAC				20.6A @	
Frequency	47-63Hz				53.5V	
Power Factor	>0.99 at >25% load		208VAC	2000W	41.7A @	55°C
Fuse	Two 25A fast blow (L & N)				48V	
					37.4A @	
OUTPUT					53.5V	



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		GUARDIAN	FAMILY R	ECTIFIER	S		
Voltage Range	46-57.6VDC		240VAC	2000W	41.7A @	55°C	
Power	2900W at ≥180VAC		2.01/10	200011	41.7A W		
	1700W at 110VAC 1271W at 85VAC				48 v 37.4A @		
<u></u>					53.5V		
Current	48V NOMINAL 53.5V FLOAT				<i>33.3</i> v		
	60.4A at54.2A at≥180VAC≥180VAC35.4A at31.8A at110VAC110VAC26.5A at 85VAC23.8A at	FMP25.48	120VAC	1400W	29.2A @ 48V 26.2A @ 53.5V	55°C	
	85VAC		208VAC	2500W	52.1A @ 48V	55°C	
Derating	17.1W/Vin from 180-85Vin				46.7A @ 53.5V		
Efficiency	>95%			250014/		5500	
Tolerance	Vout ±1.0%		240VAC	2500W	52.1A @ 48V	55°C	
Transient Response	±5% at load variation 10-90% or 90-10%				46.7A @ 53.5V		
	20ms recovery	FMPe30.48	120VAC	1700W	35.4A @	55°C	
Load Sharing	<5% of nominal current				48V		
Ripple	<250mV p-p (BW 20 MHz)				31.8A @		
Psophometric	<2mV, according to CCITT norms				53.5V		
STANDARDS			208VAC	2900W	60.4A @ 48V 54.2A @	55°C	
Inrush Current	ETSI ETS 300 132-1				53.5V		
Harmonics	EN61000-3-2		240VAC	2900W	60.4A @ 48V	55°C	
EMC	ETSI EN300 386 V.1.3.2 EN61000-6-1, EN61000-6-2 EN61000-6-3, EN61000-6-4 EN55024 performance criterion A EN55022 Class B Telcordia NEBS GR1089				54.2A @ 53.5V		
			NOTES: 1. Models shown in italics are other members of the product family. Click on the model number to go to				
Environmental	Storage: ETSI EN300 019-2-1 Transport: ETSI EN300 019-2-2 Operation: ETSI EN300 019-2-3 Damp Heat: IEC60068-2-78 MIL-STD-810D section 507.2 Earthquake: GR 63 Core Zone 4	the relevant product page. 2. Ratings are up to the Max. Temp. ambient indicated. See individual product pages or datasheets for deratings at higher temperatures. The absolute maximum ambient temperature is					
MECHANICAL		75°C.					
Dimensions, inches (mm)	4.2 W x 14.0 D x 1.6 H (107 W x 355 D x 41 H)						
Weight	4.6lbs. (2.1kg)						
Cooling	Fan-cooled, speed controlled						
Insulation	4.25kVDC primary-secondary 2.12kVDC primary-ground 0.2kVDC secondary-ground						

Mounting 19in/23in x 1U subrack

Enclosure

IP20

up to 4/5 modules

GENERAL	
Protection	Short circuit automatic current/power limiting input/output overvoltage thermal
Alarms	Fan failure Short circuit/arcing protection High temperature/output voltage Low output voltage Input voltage out of range Low fan speed (warning) Internal communication failure
LED Indicators	Green: AC normal operation Yellow steady: Low fan speed, High temperature Yellow flashing: Comms. failure Red: Module alarm / shutdown
Audible Noise (nominal input)	<45dBA @ ≤25°C (50% load) <60dBA (100% load)
Operating Temperature	-40°C to +75°C up to 2000m Reduced spec -40°C to -20°C Derated output power from 55°C linear derating to 75°C For 3000m altitude derated by 5°C
Storage Temperature	-60°C to +85°C
MTBF @ 25°C (without fan)	>832,000 hours to Telcordia (Belcore) SR-332 Iss.1

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