



Features

- Leading power density of up to 27 W/in³
- Rugged input voltage range of 90-300 VAC
- Thermal protection
- Hot-swappable
- 92.5% typical efficiency
- International standards compliance

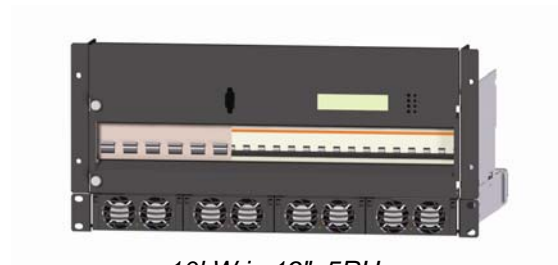
Description

The FMP25.48 rectifier incorporates resonant technology to reduce component stresses, providing increased system reliability and a best-in-class efficiency. The rectifier features a wide input operating voltage range to maximize power availability within demanding utility power environments.

These compact rectifiers support up to 12.5kW in a 1RU 23" shelf. A wide variety of distribution options are available to provide the maximum system flexibility for a wide range of communications applications that demand efficiency, reliability, and flexibility including wireless base stations, remote switches, and broadband access.



*Typical Configuration
25kW in 23", 6RU with Controller
Load & Battery Distribution*



10kW in 19", 5RU

Input

Model	FMP25.48
Input voltage	Nominal: 100-240V AC
	Permitted variation: 85-300V AC
	Derated Output: 85-180V AC
Current (max.)	<18A
Soft Start	ETSI ETS 300 132-1
Harmonics	EN 61000-3-2 Power Factor > 0.98 Typical
Surge immunity	EN61000-4-5
Fuse	Two 25A Fast Blow (Live & Neutral)
EMC	EN61000-6-2, EN6100-6-3 FCC Part 15 Class B

Output

Output voltage	46-57 VDC
Output power (50-56 VDC)	Po Max = 2500W
Efficiency	92.5%
Tolerance	Vout ± 1.0%
Transient response	±5% at load variation 10-90% or 90-10% recovery time 50 ms
Load sharing	<5% of nominal current
Ripple	<100mV p-p (BW 20 MHz)
Psophometric	<2mV, according to CCITT norms
EMC	EN 61000-6-2, EN 61000-6-4

Mechanical Data

Dimensions	107 x 337 x 40mm (WxDxH)
Weight	2 kg
Cooling	Fan-cooled, speed controlled
Insulation	4.25 kVDC primary-secondary
	2.12 kVDC primary-ground
	0.2 kVDC secondary-ground
Enclosure	IP20
Mounting	19in/ 1U subrack up to 4 modules

Other Technical Data

Safety	UL 60950-1/ CAN/CSA-C22.2 No. 60950-1-03, 1 st Ed. EN60950-1: 2006 IEC 60950-1:2001
Protection	Short circuit proof, automatic current limiting, selective shutdown of modules at excessive output voltage. Thermal protection.
Alarms	High output voltage/ shutdown, Low voltage/ module failure.
Indicators	Green LED Power ON Yellow LED Current limit, thermal protection Com. failure flashing Red LED Module failure/ high output voltage/ shutdown
Audible noise	<60 dBA
Operating temperature	-40 °C to +55 °C up to 2000 m Reduced spec -40 °C to -20 °C Derated output power 55 C° to 75 °C For 3000m altitude derate by 5 °C
Storage temperature	-60 to +85°C
Environment	Storage: ETS 300 019-2-1 Transport: ETS 300 019-2-2 Operation: ETS 300 019-2-3 Earthquake: GR 63 Core Zone 4

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