



Features

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

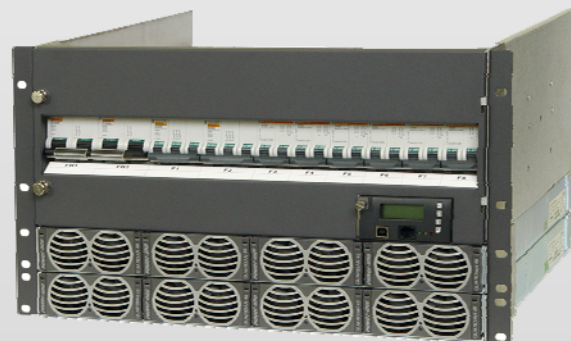
Description

The FMP25.48 rectifier incorporates resonant technology to reduce component stresses and provide increased system reliability. 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.



*7.5 kW in 19", 2 RU with Controller,
Load & Battery Distribution*



*20 kW in 19", 6 RU with Controller,
Load & Battery Distribution*



*12.5 kW in 19", 3 RU with Controller,
Load & Battery Distribution*

Input

Model	FMP25.48
Input Voltage	Nominal: 100-240 VAC
	Fully compliant: 85-275 VAC Permitted variation: 85-300 VAC (L-PE and N-PE <250 VAC)
	De-rated Output: 85-180 VAC
Input Current	<18 A
Frequency	44 - 66 Hz
Power Factor	>0.98 typical
Fuse	Two 25 A fast blow (Line & Neutral)

Mechanical Data

Dimensions	107 x 355 x 41 mm (WxDxH)
Weight	2.1 kg
Cooling	Fan-cooled, speed controlled
Insulation	4.25 kVDC primary-secondary
	2.12 kVDC primary-ground
	0.1 kVDC secondary-ground
Enclosure	IP20
Mounting	19in/23in/1U subrack up to 5 modules, or 2/3U rack including controller and load/battery distribution

Output

Output voltage	46-57.6 VDC
Output power (48-57.6 VDC)	2500 W
Output Current	52 A maximum
Efficiency	92.5%
Tolerance	Vout ± 1.0%
Transient response	±5% at load variation 10-90% or 90-10% recovery time 20 ms
Load sharing	<5% of nominal current
Ripple	<250 mV p-p (BW 20 MHz)
Psophometric	<2 mV, according to CCITT norms

Other Technical Data

Protection	Short circuit/arcing protection, automatic current/power limiting, input/output overvoltage protection, thermal protection.
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
Indicators	Green LED AC in range Yellow LED Low fan speed, High temperature Flashing Communications failure Red LED Module failure / shutdown
Audible noise (nominal input)	<45 dBA at 25°C (50% load) <60 dBA (100% load)
Temperature	Operating: -40°C to +75°C up to 2000 m Reduced spec -40°C to -20°C Derated output power 55°C to 75°C For 3000 m altitude derate by 5°C Storage: -60°C to +85°C
MTBF	>350,000 hours (without fan) at 25°C to MIL-HDBK-217F-2

Standards

Inrush Current	ETSI EN 300 132-1
Harmonics	EN 61000-3-2
EMC	ETSI EN 300 386 V.1.3.2 EN 61000-6-1, EN 61000-6-3 EN55024 performance criterion A EN 61000-6-2, EN 61000-6-4 EN 55022 Class B Telcordia NEBS GR1089
Safety	CSA 60950-1-07 UL 60950-1, EN 60950-1
Environment	Storage: ETSI EN 300 019-2-1 Transport: ETSI EN 300 019-2-2 Operation: ETSI EN 300 019-2-3 Damp Heat: IEC 60068-2-78

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