



**Features**

- Power density of up to 27 W/in<sup>3</sup>
- 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**

<b>Model</b>	FMP25.48
<b>Input Voltage</b>	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
<b>Input Current</b>	<18 A
<b>Frequency</b>	44 - 66 Hz
<b>Power Factor</b>	>0.98 typical
<b>Fuse</b>	Two 25 A fast blow (Line & Neutral)

**Mechanical Data**

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

**Output**

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

**Other Technical Data**

<b>Protection</b>	Short circuit/arcing protection, automatic current/power limiting, input/output overvoltage protection, thermal protection.
<b>Alarms</b>	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
<b>Indicators</b>	Green LED AC in range Yellow LED Low fan speed, High temperature Flashing Communications failure Red LED Module failure / shutdown
<b>Audible noise (nominal input)</b>	<45 dBA at 25°C (50% load) <60 dBA (100% load)
<b>Temperature</b>	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
<b>MTBF</b>	>350,000 hours (without fan) at 25°C to MIL-HDBK-217F-2

**Standards**

<b>Inrush Current</b>	ETSI EN 300 132-1
<b>Harmonics</b>	EN 61000-3-2
<b>EMC</b>	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
<b>Safety</b>	CSA 60950-1-07 UL 60950-1, EN 60950-1
<b>Environment</b>	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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