



Features

- **> 95% typical efficiency**
- Leading power density of up to 21.8 W/in³
- Rugged input voltage range
- Thermal protection
- Hot-swappable
- International standards compliance

Description

The iPWER XPGe12.48 rectifier raises the bar for efficiency in medium-size rectifiers. Incorporating resonant technology to reduce component stresses also provides increased system reliability. The rectifier features a wide input operating voltage range to maximize power availability within demanding utility power environments.

This compact rectifier supports up to 4.8kW in a 2RU/19" shelf. A variety of distribution options are available to provide the maximum system flexibility for a wide range of communications applications that demand efficiency, reliability and adaptability, including wireless base stations, remote switches and broadband access.



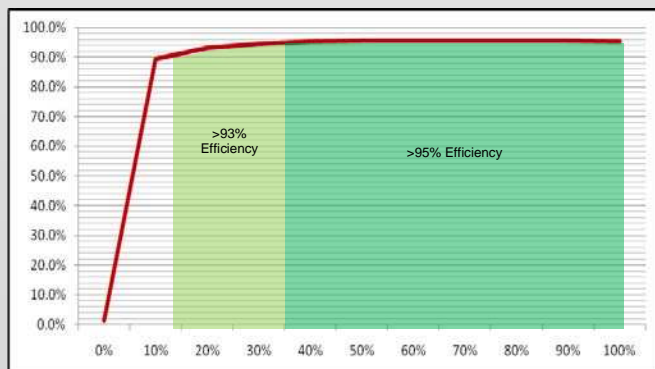
*4.8 kW in 19", 2RU with Controller,
Load and Battery Distribution*

Input

Model	XPGe12.48
Input Voltage	Nominal: 90 to 275 VAC
	Permitted variation: 90-300 VAC (L-PE and N-PE <250 VAC)
	Derated Output: 90-180 VAC
Input Current	<8A
Inrush Current	ETSI ETS 300 132-1
Harmonics	EN 61000-3-2 Power Factor > 0.99 Typical
Surge Immunity	EN 61000-4-5
Fuse	Two 12.5 A Fast Blow (Line & Neutral)
EMC	EN 61000-6-2, EN6100-6-3 FCC Part 15 Class B

Output

Output Voltage	46-57 VDC
Output Power (46-57 VDC)	1200W
Output Current (nominal)	22.6A
Efficiency	>95% from 40 -100% load
Tolerance	Vout ± 1.0%
Transient Response	±3% at load variation 10-90% or 90-10% recovery time 20 ms
Load Sharing	<5% of nominal current
Ripple	<100mV p-p (BW 500 MHz)
Psophometric	<2mV, according to CCITT norms
EMC	EN 61000-6-2, EN 61000-6-4



Mechanical Data

Dimensions	101.6 x 230 x 40.6 mm (WxDxH)
Weight	1.1kg
Cooling	Fan-cooled, linear speed control
Insulation	EN60950-1/A11:2004
	4.25kVDC input to output
	2.12 kVDC input to chassis
	0.15 kVDC output to chassis
Enclosure	IP20

Other Technical Data

Safety	CAN/CSA-C22.2 No. 60950-1-03, 1 st Ed. EN60950-1: 2006
Protection	Short circuit protection, automatic current/power limiting, input/output overvoltage protection, thermal protection.
Alarms	Fan failure Fan pre-warning Temperature shutdown High temperature pre-warning Output power derating Low output voltage Current share error Internal communication failure Output overvoltage
Indicators	Green LED AC normal operation Yellow LED power derating mode Flashing Communication failure Red LED Module alarm
Audible Noise (nominal input and full load)	<45dBA @ ≤25°C <55dBA @ >45°C
Operating Temperature	-40 °C to +75°C up to 2000 m Reduced spec -40°C to -20°C Derated output power from 55°C linear derating to 850 W @ 75°C For 3000m altitude derated by 5°C
Storage Temperature	-40 to +85°C
Environment	Storage: ETS 300 019-2-1 Transport: ETS 300 019-2-2 Operation: ETS 300 019-2-3 Damp Heat: IEC60068-2-78, MIL-STD- 810D section 507.2 Earthquake: GR 63 Core Zone 4

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