

DESCRIPTION

The XPGe12.48G 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.

Typical applications for these rectifiers are both in indoor and outdoor environments, which is ideal for broadband access, cable head ends, micro/pico BTS Cells, Enterprise E911, and GSM-R applications.

The XPGe12.48G is one of two rectifier types that can be installed in the Aspiro Series DC power systems, see additional information on the [UNIPOWER web site](http://www.unipowerco.com).

FEATURES

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

THREE YEAR WARRANTY



061384



LVD2006/95/EC
 ROHS2011/65/EU



RECTIFIER MODULE ORDERING GUIDE

MAX. POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT VOLTAGE ²	INPUT CURRENT ³	MODEL NO.
1200W	48.0VDC 53.5VDC ¹	25.0A 22.4A	90-275VAC	5.8A/5.5A	XPGe12.48G

Notes:

1. Default factory setting.
2. Units will operate over the full range from 90VAC to 275VAC, automatically limiting output current according to the actual input voltage range applied.
3. Input currents shown are nominal values at 110VAC/230VAC as appropriate.

SAFETY CERTIFICATIONS

CAN/CSA C22.2 No 62368-1:2014
 UL 62368-1:2014
 EN 62368-1:2014/A11:2017

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INDUSTRIES & APPLICATIONS



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Industrial

Specifications

INPUT		
Voltage	Nominal: 90-275VAC	
	Permitted variation: 90-300VAC (L-PE and N-PE <250VAC)	
Current	<5.5A @ 230VAC <5.8A @ 110VAC	
Frequency	47-63Hz	
Power Factor	>0.99 typical	
Fuse	Two 12.5A fast blow (L & N)	
OUTPUT		
Voltage Range	46-57VDC	
Power	1200W at 180-264VAC 600W at 90-180VAC	
Current	@ 48V	25.0A at 180-275VAC 12.5A at 90-180VAC
	@ 53.5V	22.4A at 180-275VAC 11.2A at 90-180VAC
Efficiency		
Tolerance	Vout ± 1.0%	
Transient Response	±3% at load variation 10-90% or 90-10% recovery time 20ms	
Load Sharing	<5% of nominal current	
Ripple	<100mV p-p (BW 500 MHz)	
Psophometric	<2mV, according to CCITT norms	
STANDARDS		
Inrush Current	ETSI ETS 300 132-1	
Harmonics	EN61000-3-2	
EMC	ETSI EN300 386 V1.3.2 EN61000-5-5, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4 EN55024 performance criterion A EN55022 Class B, FCC Part 15 Class B	
Safety	CAN/CSA C22.2 No 62368-1:2014 UL 62368-1:2014 EN 62368-1:2014/A11:2017	
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	

MECHANICAL	
Dimensions, inches (mm)	4.0 W x 9.1 D x 1.6 H (102 W x 230 D x 41 H)
Weight	2.4lbs. (1.1kg)
Cooling	Fan-cooled, speed controlled
Insulation	4.25kVDC primary-secondary 2.12kVDC primary-ground 0.5kVDC secondary-ground
Enclosure	IP20
Mounting	19in/23in x 1U subrack up to 4 modules
GENERAL	
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
LED Indicators	Green: AC normal operation Yellow steady: power derating Yellow flashing: Comms. failure Red: Module alarm
Audible Noise (nominal input)	<45dB @ ≤25°C <55dB @ >45°C
Operating Temperature	-40°C to +75°C up to 2000m. Reduced spec -40°C to -20°C.
	For 3000m altitude derate by 5°C.
Storage Temperature	-60°C to +85°C