XR08.48G

48VDC RECTIFIERS
16.7 Amps | 800 Watts

DESCRIPTION

The XR08.48G is an 800W single-phase, hot-pluggable, fan cooled rectifier. The high power density of this product offers the optimum 1U shelf solution for space-critical applications.

This rectifier offers excellent efficiency as well as wide operating temperature and wide input voltage range. Together with advanced technology they enable cost effective and reliable solutions.

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 XR08.48G 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.

FEATURES

- Wide AC input; 85 to 300VAC
- Wide operating temperature range
- Designed for 300mm deep ETSI compliant systems
- Input overvoltage disconnection
- Thermal protection
- Hot-swappable
- 90% typical efficiency
- 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.
800W	48.0VDC 53.5VDC [1]	16.7A 15.0A	85-275VAC	8.1A/3.7A	XR08.48G

Notes:
1. Default factory setting.
2. Units will operate without derating over the full range from 85VAC to 275VAC.
3. Input currents shown are nominal values at 110VAC/240VAC as appropriate.

SAFETY CERTIFICATIONS

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

INDUSTRIES & APPLICATIONS

Telecom Cable Utilities Government Industrial

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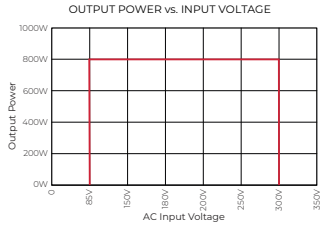
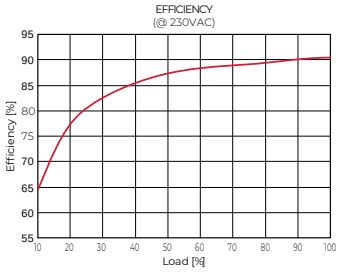
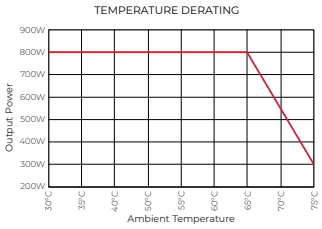
Specifications

INPUT	
Voltage	Nominal: 100-240VAC
	Fully compliant: 85-275VAC Permitted variation: 85-300VAC (L-PE and N-PE <250VAC)
Input	<10.5A
Frequency	47-63Hz
Power Factor	>0.98 typical
Fuse	Two 12.5A fast blow (L & N)
OUTPUT	
Voltage Range	46-57VDC
Power	800W @ 85-275VAC 
Current	16.7A @ 48V 15.0A @ 53.5V
Efficiency	
Tolerance	Vout ± 1.0%
Transient Response	±3% at load variation 10-90% or 90-10% recovery time 50ms
Load Sharing	<5% of nominal current
Ripple	<5% of nominal current
Psophometric	<2mV, according to CCITT norms
STANDARDS	
Inrush Current	ETSI EN 300 132-1
Harmonics	EN 61000-3-2
EMC	ETSI EN300 386 V.1.3.2 EN61000-6-1, EN61000-6-3 EN55024 performance criterion A EN61000-6-2, EN61000-6-4 EN55022 Class B Telcordia NEBS GR1089
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

MECHANICAL	
Dimensions, inches (mm)	4.0 W x 9.0 D x 1.6 H (102 W x 229 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 Short circuit/arcing protection High temperature/output voltage Low output voltage Input voltage out of range Low fan speed (warning) Internal communication failure
LED Indicators	Green: AC in range Yellow steady: Low fan speed or high temperature Yellow flashing: Comms. failure Red: Module failure / shutdown
Audible Noise (nominal input)	<55dBA according to ISO7779
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
MTBF at 25°C (without fan)	>335,000 hours Telcordia (Belcore) SR-332 Iss.1

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