

NPR48 Network Power Rectifier



The Eaton NPR48 Series of rectifier modules is designed for a wide range of telecommunications applications including switching, wireless, and transmission.

Designed to operate with the SM60 or SM65 Series Supervisory Modules the NPR48 rectifier modules will provide years of cost-effective, and trouble free service for your network equipment.

The combination of leading high frequency switch mode technology with high reliability fan cooling makes the NPR48 a flexible, efficient, and reliable DC power source. It is designed for operation at up to 70°C (158°F) and under a wide range of AC power conditions.

The NPR48 Series rectifiers are up to 92% efficient with optimum performance available at typical load currents. These rectifiers also offer two output modes; either constant power or constant current.

Features

- Fast on-line replacement of rectifiers (hot-swap)
- Automatic set-up from supervisory module
- Intelligent microprocessor controlled
- High power density
- High efficiency and unity power factor
- Wide AC supply conditions
- Wide output voltage range
- Constant power or constant current output modes
- Compliance with international standards



Powering Business Worldwide

Technical Specifications

Input

AC Supply	240V, 50/60Hz (nominal)
Power Factor	> 0.99 (20 – 100% Output Current)
Efficiency	> 90% for 20 – 100% Output Current > 92% @ 50% Output Current

Output

DC Output	40 – 58V
Voltage Range	
DC Output (maximum)	Constant power mode: 3000W (62.5A @48V) Constant current mode: 52A
Power Density	6 Rectifiers: 375A in 5U/19-inch (10W/cu.inch)

Environmental

Operating Temperature	-25°C – +70°C [-13°F – +158°F]
Range	Output current is derated above 50°C [122°F]
Cooling	Dual, temperature controlled, high reliability fans

Mechanical

Dimensions	5U: 220mm [8.75"], 70mm [2.75"], 360mm [14.2"]
H,W,D	overall
Weight	4.5kg [9.9lb]

Certifications

All products comply with international standards. Contact your local Eaton DC representative for details on the specific product versions available with these safety and EMC approvals:

North America FCC, UL (Canada, USA), IC

Europe CE

Australia/New Zealand
C-tick

In the interests of continual product improvement all specifications are subject to change without notice. Performance ratings are valid with all other variables at Nominal. Specifications guaranteed over rated operating range.



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