

# APR24 Access Power Rectifier



The Eaton APR24 series of 24V rectifier modules are designed specifically for network access applications such as customer premises equipment, and road-side cabinet installations.

The combination of high frequency switch mode technology with high reliability fan cooling makes the APR24 a flexible, efficient, and reliable DC power source.

Designed for operation at up to 70°C (158°F) and under a wide range of AC power conditions means that the APR24 is perfectly suited to the demanding environments found in network access applications.

This rectifier has power factor correction and up to 88% efficiency, giving optimum performance at typical load currents.

Designed to operate with the Eaton SM40/SM45 and SM60/SM65 supervisory modules in any of the versatile Access Power Solutions DC power systems, the APR24 rectifier modules will provide years of cost-effective, and trouble free service for your network access equipment.

## 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 ranges
- Constant power output
- Compliance with international standards



*Powering Business Worldwide*

# Technical Specification

## Brief Technical Specifications

|                             |  |
|-----------------------------|--|
| AC Supply                   | 220/240V, 50/60Hz (nominal)<br>185V-275V: full output up to 50°C [122°F ]<br>150V-185V: full output up to 30°C [86°F ] |
| Power Factor                | >0.99 (50 –100% Output Current)  |
| Efficiency                  | 88% (50 – 100% Output Current)   |
| DC Output Voltage Range     | 24V: 21.5 – 29V  |
| DC Output (maximum)         | 750W, 31A @ 24V  |
| Operating Temperature Range | -40°C – +70°C [-40°F – +158°F ]<br>Output current is derated above 50°C [122°F ] and below -10°C [14°F ]               |
| Relay outputs               | 6 Voltage free, NO-C-NC, 0.1A @ 60VDC<br>Screw terminal block, 0.5mm <sup>2</sup> - 2.0mm <sup>2</sup> conductors      |
| Cooling                     | Temperature controlled, high reliability fan   |
| Dimensions H,W,D            | 3U: 133mm [5.25"], 13E: 66mm [2.6"], 257mm [10.1"] overall   |
| Weight                      | 1.9kg [4.2lb ]   |

## 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 UL, FCC Verification, CSA, IC  
Europe CE  
Australia / New Zealand C-tick, Telepermit

In the interests of continual product improvement all specifications are subject to change without notice.

