

APR24-3G Rectifier Module



The **Eaton® APR24-3G Access Power Rectifier** is the 24V series of rectifier modules designed specifically for telecom access networks and light industrial applications such as cellular base stations, radio trunk networks and SCADA systems. The APR24-3G is also suitable for NiCad battery applications.

The new generation 3G architecture is reliable, power dense and compact. The high power density allows as little as 1U of rack space to be occupied by power, therefore, maximizing space available for telecom equipment.

The APR24-3G rectifier incorporates a combination of leading-edge high frequency switch mode technology for a flexible and efficient DC power source, with high reliability fan cooling which further contributes to its high overall reliability.

Designed for operation at up to 70°C (158°F) and under a wide range of AC power conditions, the APR24-3G is perfectly suited to the demanding environments found in network access applications.

With up to 90% efficiency, optimum performance at typical load currents, and power factor correction the APR24-3G has some of the lowest running costs for any 24V DC power system of its type available.

The APR24-3G is designed to operate with the Eaton SC100 and SC200 system controllers in any of the versatile Access Power Solutions and provide years of cost-effective and trouble-free service for your network access equipment.

Features

- Fast on-line expansion of rectifiers (hot-swap)
- Automatic set-up from system controller
- Intelligent microprocessor controlled
- High power density
- High efficiency and unity power factor
- Wide AC supply conditions
- Wide output voltage ranges
- Constant current output
- NiCad battery compatible
- Compliance with international standards

Technical Specifications



Input

AC Supply	220/240V, 50/60Hz (nominal) 175-275V full output power up to 50°C [122°F]
Power Factor	>0.98 (50 – 100% Output Current)
Efficiency	89% (50 – 100% Output Current)

Output

DC Output	24V: 20 – 32V
Voltage Range	
DC Output (maximum)	Constant power 1440W, 28.8 - 32V Constant current 50A, 20 - 28.8V

Environmental

Operating Temperature Range	-40°C – +70°C [-40°F – +158°F] Output current is derated above 50°C [122°F] and below -10°C [14°F]
Cooling	Temperature controlled, high reliability fans

Mechanical

Dimensions	3U: 133mm [5.25"], 42mm [1.65"], H,W,D
Weight	266mm [10.45"] overall 1.7kg [3.7 lb]

Certifications

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. Performance ratings are valid with all other variables at Nominal. Specifications guaranteed over rated operating range.



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