APR48-ES Energy Saver Rectifier



The Eaton® APR48-ES Energy Saver Rectifier is designed for communications network operators who are striving to cut energy costs across the network, and/or to meet aggressive carbon footprint reduction targets.

Operating with well over 96% efficiency, it produces at least 50% less waste energy than most other modern rectifiers, and with potentially greater savings over older infrastructure.

The 2kW Energy Saver Rectifier is the ideal module size for powering access applications within a telecom network such as cellular base stations, ADSL equipment, and fibre nodes.

This rectifier features intelligent digital signal processing for enhanced control, producing peak efficiency in excess of 96% for typical operating loads, while also maintaining a very high minimum operating efficiency of 95 to 96%, over a very wide range of loads (from 30% to 100% of the 2kW capacity).

The high power density, short depth and flexible mounting options makes the Energy Saver Rectifier well suited to limited space applications such as ETSI and road side cabinets.

The Energy Saver Rectifier is fully compatible with existing Eaton 3G systems and it is one of the easiest rectifiers to use, with a simple plug-and-go insertion. It operates under a wide range of AC power conditions and in temperatures at up to 70°C (158°F).

Features

- 2000W output power
- Energy saving efficiency greater than 96%
- Wide efficiency curve
- Industry leading power density
- Fast on-line expansion of rectifiers (hot-swap)
- Simple 'plug and go' insert
- Unity power factor
- Digital signal processing for enhanced control
- Wide AC supply conditions
- Wide output voltage range
- Constant power output
- Compliance with international standards





Technical Specifications

2000W @ 48V

120V/208-240V, 50/60Hz (nominal)
185-275V full output power up to 50°C [122°F]
90-185V reduced output power
>0.99 (50 - 100% output current)
>96% peak
>95% (20 – 100% output power)
43 – 57.5V

Environmental	
Operating	
Temperature	-40°C – +70°C [-40°F – +158°F]
Range	Output power derates above 50°C [122°F]
Cooling	Temperature controlled, variable speed, high
	reliability fan <50dBΔ ambient temperature 25°C

Mechanical	
Dimensions	3U: 133mm [5.25"], 42mm [1.65"],
H,W,D	266mm [10.45"] overall
Weight	1.7kg [3.7 lb]
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Certifications	
North America	UL, FCC Verification, CSA, IC
Europe	CE

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.



(maximum)



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