## LPR48-ES Energy Saver Rectifier



The Eaton® LPR48-ES Energy

The high power density,

compact construction and flexible mounting options

makes the Energy Saver

space applications.

Rectifier well suited for limited

The Energy Saver Rectifier is

compatible with Eaton's EC500

system controller. Simplicity of

use, with a simple plug-and-go

costs are kept to a minimum. It operates under a wide range of

insertion ensures operating

AC power conditions and in

temperatures at up to 75°C

(167°F).

Saver Rectifier is designed for communications network operators who are striving to cut energy costs across the network, but want to achieve this with space-saving systems.

Building on the successful Energy Saver platform, the compact LPR48-ES offers 1.1kW output power with a power density of 26.8W/j<sup>3</sup>.

Operating with a peak efficiency of over 94%, it makes a significant contribution to site and network energy savings using affordable and reliable components.

The 1.1kW Energy Saver Rectifier is the ideal module size for powering small access applications within a telecom network such as cellular base stations, fibre broadband equipment, and IoT nodes.

This rectifier produces peak efficiency of 94.3% for typical operating loads, while also maintaining a very high minimum operating efficiency of over 93.5% for a wide load range (from 25% to 75% of the 1.1kW capacity).

## Features

- 1100W output power
- Energy saving efficiency greater than 94%
- Wide efficiency curve
- Industry leading power density
- Fast on-line expansion of rectifiers (hot-swap)
- Simple 'plug and go' insert
- Unity power factor
- Wide AC supply conditions
- Wide output voltage range
- Constant power output
- Compliance with international standards



## **Technical Specifications**

120V/208-240V, 50/60Hz (nominal)
185-300V full output power up to 45°C [113°F]
90-185V reduced output power
>0.99 (50 – 100% output current)
>94.3% peak
>93.5% (25 to 75% output power)
42 – 58V
1100W @ 48V
-40°C to +75°C [-40°F to +158°F]
Output power derates above 45°C [113°F]
Temperature controlled, variable speed, high
reliability fan <50dBA ambient temperature 25°C
Eaton EC500 system controller
RM5-L1
1U: 42mm [1.65"], 85mm [3.35"],
190mm [7.48"] overall
1.65kg [2.20 lb]
1.00Ng [2.20 ID]
UL, FCC Verification, CSA
UL, FCC Verification, CSA CB 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.



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