

# CR48-3G Rectifier Module



The **Eaton® CR48-3G Core Network Rectifiers** are designed specifically for core network applications such as central office and data centres.

The new generation 3G architecture of the CR48-3G rectifier has improved space utilisation so rack space can be maximised for use with telco equipment and not power equipment.

The combination of industry leading power density and high frequency switch mode technology with high reliability fan cooling makes the CR48-3G a flexible, efficient, and very highly reliable DC power source.

The CR48-3G is a very high powered rectifier with 5800W output, it is designed for operation at up to 70°C (158°F) and under a wide range of AC power conditions.

The CR48-3G also has power factor correction and is up to 92% efficient, with optimum performance available at typical load currents. Together these give the CR48-3G some of the lowest running costs for any DC power system of its type available.

These features make the CR48-3G ideally suited to central office and data center applications that require the highest level of performance and reliability from the DC power system.

Operating with the Eaton SC200 system controller, the CR48-3G rectifier modules will provide years of cost-effective, and trouble free service for your core 48V network equipment.

## Features

- Fast on-line expansion of rectifiers (hot-swap)
- Automatic set-up from system controller
- Intelligent microprocessor controlled
- Industry leading power density
- High efficiency and unity power factor
- 3Ø AC supply
- Wide AC supply conditions
- Wide output voltage ranges
- Constant power output
- Compliance with international standards



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# Technical Specifications

## Input

|              |   |
|--------------|---|
| AC Supply    | 208V, 50/60Hz (nominal) 3-phase Δ<br>400V, 50/60Hz (nominal) 3-phase Y<br>323-510V full output power up to 50°C [122°F] |
| Power Factor | >0.99 (50 – 100% Output Current)  |
| Efficiency   | 92% (50 – 100% Output Current)  |

## Output

|                     |             |
|---------------------|-------------|
| DC Output           | 43 – 58V    |
| Voltage Range       |             |
| DC Output (maximum) | 5800W @ 48V |

## Environmental

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

## Mechanical

|            |   |
|------------|---|
| Dimensions | 3U: 130mm [5.25"], 121mm [4.8"],<br>H,W,D |
| Weight     | 321mm [12.6"] overall<br>4.4kg [9.7 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.



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