



2/3kW HE Rectifier

Unrivalled Power Density

3.0kW
MAX

48V
OUT



GREEN
ENERGY

With an efficiency >96%, the RM3048HE high-efficiency rectifier module provides considerable energy savings and ROI benefits.

Modules are New Zealand-made to guarantee design, manufacture and process integrity. Our robust, proven conversion topology utilizes only the highest specification components – something rarely offered by others.

Designed for use in modern telecommunications networks, the RM3048HE offers unrivalled reliability and power density that maximizes the effective use of rack space.

These COMPACT Series rectifiers can be configured horizontally or vertically to provide up to 12.0kW in a 1RU 19" shelf or, alternatively, 36.0kW in a 3RU shelf. Modules are scalable to deliver up to 10,000A.

Our expansive portfolio of COMPACT systems provides a wide variety of power, voltage and distribution configurations. This ensures solutions are highly flexible, so they can be tailored to any communications applications.

KEY FEATURES

- High-efficiency conversion reduces heat and energy losses by over 50%
- 'Hot plug/swap' modular architecture for quick and easy system integration/expansion
- Forced-air cooled by a temperature controlled, high-reliability, monitored fan



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Specifications

| AC INPUT | 3kW | 2kW |
|-----------------------------|---|---|
| Nominal Input Voltage: | 230V AC | 230V AC |
| Input Voltage Range: | 85–300V (190–275V AC non-derating output power) | 85–300V (175–275V AC non-derating output power) |
| Power Factor: | >0.99 | >0.99 |
| Peak Efficiency: | 96.3% | 96.7% |
| DC OUTPUT | | |
| Nominal Output Voltage: | 48V DC | 48V DC |
| Output Voltage Range: | 43–60V DC | 43–60V DC |
| Maximum Output Current: | 60.0A | 41.7A |
| Maximum Output Power: | 3.0kW | 2.0kW |
| ENVIRONMENTAL REQUIREMENTS | | |
| Ambient Temperature: | -20°C to +70°C (maximum output power is derated above 45°C) | -20°C to +70°C (maximum output power is derated above 55°C) |
| MECHANICAL | | |
| Dimensions (W, H, D): | 111.5mm, 44.0mm (1U), 282.0mm overall (rack depth 260.0mm) | |
| Weight: | 1.50kg | |
| Cooling: | Forced-air cooled (front to back airflow) | |
| COMPLIANCES | | |
| Safety: | EN60950 | |
| Immunity: | CISPR24 | |
| Emissions: | CISPR22 | |
| AC Harmonics: | EN61000-3-2 | |
| AC Flicker and Fluctuation: | EN61000-3-3 | |
| Other: | CE & RoHS compliant | |



Contact Enatel for datasheets and characterization details. Due to product development, specifications are subject to change without prior notice. Pictures may be representative: actual products may differ.

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