## RM2048/24 2.0kW 48V DC / 1.0kW 24V DC Modular Rectifier

Efficient and reliable, these modular rack mount rectifiers allow for easy paralleling of modules to provide redundancy or higher power outputs. Designed for use in modern telecommunications networks these rectifiers offer unrivalled power densities.

The unique design allows for mounting four rectifiers in a 1U x 19" rack space.

"Plug and play" installation allows quick and easy installation and system expansion. These robust, reliable rectifiers are forced cooled by a speed controlled and monitored high reliability fan.

- Forced cooled.
- Thermally protected.
- Power factor corrected.
- Input/output voltage and current protected.
- Serial alarm and control interface.
- Microprocessor controlled.







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## **Specifications**

Other:

## AC Input 230V Nominal: Voltage Range: Frequency Range: 45-65 Hz Power Factor: >0.99 Efficiency: Input Fuses: Maximum Input Current: 13A Protection: Input Voltage: Input Inrush: DC Output - Software Switchable 48V **Output Ratings:** Nominal Voltage: 48V 58V Rated Voltage: Voltage Range: 43-60V Maximum Current: 41.7A **Regulation:** Line: ±0.1% Load: Hold-up Time: Start-up Time: Protection: Current Limit: Over Temperature: Polarity Reversal: Over voltage: Adjustable limit Noise: (under nominal conditions) Ripple <100Hz: <1mV rms unweighted Voice band 100Hz-5KHz: Wide band 5kHz-1MHz: <5mV rms unweighted Peak to Peak 0-20MHz: <50mV peak to peak Isolation: 4000V DC Input to Output: 3500V DC Input to Chassis: Output to Chassis: 2100V DC Environmental Requirements Ambient Temperature: 25+/-5℃ Nominal: Range: Storage Temperature: -20°C to +70°C Humidity: Altitude: above sea level Mechanical Dimensions, W, H, D: Weight: 1.5kg Shipping Dimensions W, H, D: Shipping Weight: 1.6kg Cooling: Forced cooled Compliances EN60950 Safety: Electrostatic Discharge: CISPR24 Radiated Radio Frequency: CISPR22 AC Harmonics: EN61000-3-2 AC Flicker and Fluctuation: EN61000-3-3

90-300V (reduced power below 175V) >91% (>50% output power) HRC fuses in phase and neutral Auto shutdown, auto restart when correct voltage restored <2x maximum input current 24V Current limited to 41.7A Constant power output from 54V to 60V24V 291/ 21-30V 41.7A ±0.5% (no load to full load) >15ms for 20% output voltage drop Start up delay 1 second. (varies with AC supply voltage) Walk-in delay 6 seconds at full output. (varies with DC output voltage) Adjustable to 50-100% of maximum rated current Automatic current turndown, backup shutdown protection Output fuse with crowbar diode <1mV rms psophometric (VDR to chassis removed) -10°C to +70°C (maximum output power is derated above +50°C) 5-95% RH (non-condensing) <2500m, De-rate maximum ambient temperature by 4°C per 1000m 111.5mm , 44mm (1U), 282mm overall (rack depth 260mm) 120mm, 52mm, 325mm

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