

RM3048 3.0kW 48V DC MODULAR RECTIFIERS



AC INPUT

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| Nominal Input Voltage: | 230V AC | |
| Input Voltage Range: | 90-300V AC (reduced power below 175V AC) | |
| Frequency Range: | 45-65Hz | |
| Power Factor: | >0.99 | |
| Peak Efficiency: | 92.0% | |
| Input Fuses: | HRC fuses in phase and neutral | |
| Maximum Input Current: | 19.0A | |
| Protection: | Input Voltage: Input Inrush: | Auto shutdown, auto restart when correct voltage restored <2x maximum input current |

DC OUTPUT

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| Nominal Output Voltage: | 48V DC | |
| Output Voltage Range: | 43-60V DC | |
| Maximum Output Current: | 60.0A | |
| Regulation: | Line: Load: | ±0.1% ±0.5% (no load to full load) |
| Hold-up Time: | | >15ms for 20% output voltage drop |
| Start-up Time: | Start-up Delay: Walk-in Delay: | 1 second depending on load and output voltage 6 seconds depending on load and output voltage |
| Protection: | Current Limit: Over Temperature: Polarity Reversal: Over Voltage: | Adjustable to 50-100% of maximum rated current Auto current turndown, backup shutdown Output fuse in positive with crowbar diode Adjustable limit |
| Noise: | Ripple <100Hz: Peak to Peak 0-20MHz: | <1mV rms unweighted <50mV peak to peak |
| Isolation: | Input to Output: Input to Chassis: Output to Chassis: | 4000V DC 3500V DC (VDR to chassis removed) 2100V DC |



ENVIRONMENTAL REQUIREMENTS

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| Ambient Temperature: | -20°C to +70°C (maximum output power is derated above +50°C) |
| Storage Temperature: | -30°C to +85°C |
| Humidity: | 5-95% RH (non condensing) |
| Altitude: | <2,500m at full power |

MECHANICAL

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|------------------------------|---|
| Dimensions W, H, D: | 220.0mm, 44.45mm (1U), 305.0mm overall (rack depth 283.0mm) |
| Weight: | 2.70kg |
| Shipping Dimensions W, H, D: | 52.0mm, 230.0mm, 340.0mm |
| Shipping Weight: | 2.85kg |
| Cooling: | Force cooled (front to back airflow) |

COMPLIANCES

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|---------------------------|---------------------|
| Safety: | EN60950 |
| Immunity: | CISPR24 |
| Emissions: | CISPR22 |
| AC Harmonics: | EN61000-3-2 |
| AC Flicker & Fluctuation: | EN61000-3-3 |
| Other: | CE & RoHS compliant |



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