

RM2048HE 2.0kW 48V DC MODULAR RECTIFIER



AC INPUT

Nominal Input Voltage:	230V AC	
Input Voltage Range:	85-300V AC (175-275V AC not derating output power)	
Frequency Range:	45-65Hz	
Power Factor:	>0.99	
Peak Efficiency:	96.6%	
Input Fuses:	HRC fuses in phase and neutral	
Maximum Input Current:	12.0A	
Protection:	Input Voltage: Input Inrush:	Auto shutdown, auto restart when correct voltage restored <2x maximum input current

DC OUTPUT

Nominal Output Voltage:	48V DC	
Output Voltage Range:	42-60V DC	
Maximum Output Current:	41.7A	
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:	<2mV rms unweighted <100mV 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

Ambient Temperature:	-20°C to +70°C (maximum output power is derated above +55°C)
Storage Temperature:	-30°C to +85°C
Humidity:	5-95% RH (non condensing)
Altitude:	<2,500m at full power

MECHANICAL

Dimensions W, H, D:	111.5mm, 44.0mm (1U), 282.0mm overall (rack depth 260.0mm)
Weight:	1.50kg
Shipping Dimensions W, H, D:	52.0mm, 120.0mm, 335.0mm
Shipping Weight:	1.60kg
Cooling:	Force cooled (front to back airflow)

COMPLIANCES

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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