

# RM3048XE 3.0kW 48V DC MODULAR RECTIFIERS



## AC INPUT

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:	94.0%
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

Nominal Output Voltage:	48V DC
Output Voltage Range:	43-58V 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

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

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

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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