

## RM2324 2.3kW 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 nine rectifiers in a 5U x 19" rack space or two 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 two speed controlled and monitored high reliability fans.

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



## Specifications

<b>AC Input</b>	
Nominal:	230V
Voltage Range:	90-300V (reduced power below 150V)
Frequency Range:	45-65 Hz
Power Factor:	>0.99
Efficiency:	>91% (>45% output power)
Input Fuses:	HRC fuses in phase and neutral
Maximum Input Current:	19A
Protection:	
Input Voltage:	Auto shutdown, auto restart when correct voltage restored
Input Inrush:	<2x maximum input current
<b>DC Output</b>	
Output Ratings:	Current limited to 80A
Nominal Voltage:	24V
Rated Voltage:	29V
Voltage Range:	21-30V
Maximum Current:	80A
Regulation:	
Line:	±0.1%
Load:	±0.5% (no load to full load)
Hold-up Time:	>15ms for 20% output voltage drop
Start-up Time:	Start up delay 1 second. (varies with AC supply voltage) Walk-in delay 7 seconds at full output. (varies with DC output voltage)
Protection:	
Current Limit:	Adjustable to 50-100% of maximum rated current
Over Temperature:	Automatic current turndown, backup shutdown protection
Polarity Reversal:	Output fuse with crowbar diode
Over voltage:	Adjustable limit
Noise: (under nominal conditions)	
Ripple <100Hz:	<1mV rms unweighted
Voice band 100Hz-5KHz:	<1mV rms psophometric
Wide band 5kHz-1MHz:	<5mV rms unweighted
Peak to Peak 0-20MHz:	<50mV peak to peak
Isolation:	
Input to Output:	3000V AC
Input to Chassis:	2500V AC (VDR to chassis removed)
Output to Chassis:	1500V AC
<b>Environmental Requirements</b>	
Ambient Temperature:	
Nominal:	25+/-5°C
Range:	-10°C to +70°C (maximum output power is derated above +50°C)
Storage Temperature:	-20°C to +70°C
Humidity:	5-95% RH (non-condensing)
Altitude:	<2500m, De-rate maximum ambient temperature by 4°C per 1000m above sea level
<b>Mechanical</b>	
Dimensions, W, H, D:	45.4mm, 217.5mm (5U), 323mm overall (rack depth 280mm)
Weight:	2.5kg
Shipping Dimensions W, H, D:	340mm, 230mm, 52mm
Shipping Weight:	2.65kg
Cooling:	Forced cooled, using dual temperature controlled high reliability fans
<b>Compliances</b>	
Safety:	EN60950
Electrostatic Discharge:	CISPR24
Radiated Radio Frequency:	CISPR22
AC Harmonics:	EN61000-3-2
AC Flicker and Fluctuation:	EN61000-3-3
Other:	CE & RoHS compliant

