

# RM3 HV SERIES INDUSTRIAL MODULAR RECTIFIERS 3.0kW 110V DC



Efficient and reliable, these rack mount rectifiers allow for easy paralleling of modules to provide redundancy or higher power outputs. They represent decades of design, development and manufacture experience, culminating into the ideal battery charging solution for industrial applications including utility protection and control equipment.

A multitude of mounting options enable custom and configurable systems tailored to individual customer requirements. "Plug and play" allows quick and easy installation and system expansion as necessary.

Modules are New Zealand made to guarantee design, manufacture and process integrity. They offer unrivalled power density and reliability benefits with a robust proven conversion topology that utilises only highest specification components.

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



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## AC INPUT

Nominal Input Voltage:	230V AC	
Input Voltage Range:	90-300V (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

Nominal Output Voltage:	110V DC	
Output Voltage Range:	80-155V DC	
Maximum Output Current:	27.3A	
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:	220.0mm, 44.45mm (1U), 305.0mm overall (rack depth 283.0mm)
Weight:	2.80kg
Shipping Dimensions W, H, D:	52.0mm, 230.0mm, 340.0mm
Shipping Weight:	2.95kg
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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