

# RM SERIES 600/800W 48V DC MODULAR RECTIFIERS



## AC INPUT

	RM848	RM648
Nominal Input Voltage:	230V AC	110V AC
Input Voltage Range:	90-300V AC (reduced below 175V AC)	90-300V AC (reduced above 275V AC)
Frequency Range:	45-65Hz	45-65Hz
Power Factor:	>0.99	>0.99
Peak Efficiency:	93.0%	92.5%
Input Fuses:	HRC fuses in phase and neutral	HRC fuses in phase and neutral
Maximum Input Current:	5.5A	6.8A
Protection:	Input Voltage: Input Inrush:	Auto shutdown, auto restart when correct voltage restored <2x maximum input current

## DC OUTPUT

	RM848	RM648
Nominal Output Voltage:	48V DC	48V DC
Output Voltage Range:	43-60V DC	43-60V DC
Maximum Output Current:	16.6A	12.5A
Regulation:	Line: Load:	±0.1% ±0.5% (no load to full load)
Hold-up Time:	>12ms 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 Protected at system level 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

	RM848	RM648
Ambient Temperature:	-20°C to +75°C (maximum output power is derated above +55°C)	-20°C to +75°C (maximum output power is derated above +60°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:	55.0mm, 44.45mm (1U), 260.0mm overall (rack depth 245.0mm)
Weight:	635g
Shipping Dimensions W, H, D:	60.0mm, 52.0mm, 325.0mm
Shipping Weight:	800g
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



enatel.net  
smart | power | design