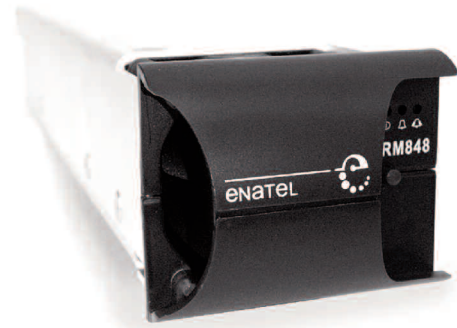


# RM848 Series Modular Rectifier

800 WATTS COMMUNICATIONS

## FEATURES

- Forced cooled
- Modular for hot swap system
- Thermally protected
- Power factor corrected
- Input /output voltage & current protected
- Serial alarm & control interface
- Microprocessor controlled



## SPECIFICATIONS

AC INPUT	
Nominal	230VAC
Voltage range	90-300V (reduced power below 175V)
Frequency range	45-65 Hz
Power factor	>0.99
Efficiency	>92% (>50% output power)
Input fuses	HRC fuses in phase and neutral
Maximum input current	5.5A

PROTECTION	
Protection	Adjustable to 50-100% of maximum rated current
Over temperature	Automatic current turndown, backup shutdown protection
Voltage	Auto shutdown, auto restart when correct voltage restored
Inrush	<2x maximum input current

DC OUTPUT	
Output ratings	Constant power output from 54V to 58V
Nominal voltage	48V
Rated voltage	58V
Voltage range	43-60V
Maximum current	16.6A

REGULATION	
Line	±0.1%
Load	±0.5% (no load to full load)
Hold-up time	>7ms for 20% output voltage drop
Start-up time	Start up delay 1 second. (varies with AC supply voltage) Walk-in delay 6 seconds at full output. (varies with DC output)

Polarity reversal	Output fuse in positive with crowbar diode
Over voltage	Adjustable limit (under nominal conditions)

NOISE	
Ripple <100H	<1mV rms unweighted
Voice band 100Hz-5KHz	<2mV rms psophometric
Wide band 5kHz-1MHz	<5mV rms unweighted
Peak to peak 0-20MHz	<50mV peak to peak

ISOLATION	
Input to output	4000V DC
Input to chassis	3500V DC (VDR to chassis removed)
Output to chassis	2100V DC

ENVIRONMENT	
Ambient temperature Nominal	+25 +/- 5°C
Range	-20°C to +70°C (maximum output power derated above +50°C)
Storage temperature	-20 to +70°C
Humidity	0-98% RH (non-condensing)
Altitude	<3000m, De-rate maximum ambient temperature by 4°C per 1000m above sea level

MECHANICAL	
Dimensions	W 55mm x H 44mm x D 235mm
Weight	800g
Cooling	Forced cooled

COMPLIANCES	
Safety	EN 60950-1:2006
Electromagnetic compatibility (EMC) requirements	ETSI EN 300 386 V1.4.1 (2004-04)
RF emissions	CISPR 24, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4 EN 61000-4-5, EN 61000-4-6, EN 61000-4-11
AC harmonics	EN 61000-3-2
AC flicker and fluctuation	EN 61000-3-3
Other	CE & RoHS 2002/95/EC

## RM848 SERIES RECTIFIER MODULE

MODEL	VOLTAGE RANGE	MAXIMUM CURRENT	WATTS
RM848	48V (43-60V)	16.6A	800