



TRUST YOUR INSTINCTS

# RMT-8

AC/DC Power Supply

## Technical Datasheet

### The McDowell Advantage

McDowell Research is the worldwide industry leader specializing in the design and manufacture of power solutions and accessories to support military communications systems including power supplies, RF Amplifiers, battery chargers, amplified speakers, equipment mounts, case equipment and integrated communication systems.



### SPECIFICATIONS

Part No	RMT-8
AC Input	95-265 VAC 47-440 Hz
DC Output	24 VDC at 53 amps
Size	15.5" L x 7.75" W x 6.25" H
Weight	19 lbs. (without AC input power cable)
Operating Temperature	-20° C to 50° C
Storage Temperature	-20° C to 65° C
Operating Altitude	27,000 ft.
Storage Altitude	55,000 ft.
Overload Protection	Rectangular current limiting with short-circuit protection. Thermal shutdown with automatic reset.
Line/Load Regulation	+/- 1% combined
Efficiency	Minimum 80% at full load
Hold Up	10 ms full load for 5% drop of output
Output Ripple	1% of output voltage, peak to peak
Input Isolation	2250 VDC input to chassis, 4300 VDC to output, full compliance to IEC950, CSA C22.2 No. 950 and UL 950
Power Factor	0.98 (typical) at full load for entire input range
Internal Power Supply	MRC-74
Output Voltage Protection	Double regulator loop
RFI Suppression	Meets requirements of EN55022 1987 Class A conducted emissions as a minimum
Temperature Drift	0.03% per C over operating temperature range

The RMT-8 is a compact AC to DC power supply with a rugged enclosure for airborne or vehicle applications. The RMT-8 uses established design techniques to ensure high reliability and is suitable for a wide range of applications. The RMT-8 features full electronic protection, high efficiency, and low output noise. The built in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature.

### Features

#### Rugged Design:

Compact and packaged in a louvered aluminum with protected output terminals to withstand the harshest environments. Applicable for airborne or vehicle requirements.

#### Innovative Electronic Design:

Intelligent innovations such as electronic power factor correction and an outstanding power output of 1500 Watts. Built in redundancy diodes allow paralleling of units.

#### Full Electronic Protection:

Input protection such as a thermal fuse and inrush current limiting help make the RMT-8 durable and effective.