

RMT-8

AC/DC Power Supply

Technical Datasheet

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Overview

The RMT-8 is a compact AC to DC power supply in a rugged enclosure making it ideal for airborne or vehicle applications. The RMT-8 features full electronic protection using an innovative power factor correction design, high efficiency and low output noise. The built-in fan provides sufficient airflow for operation without de-rating up to 50°C ambient temperature.

Application

This power supply system is ideal for vehicle and airborne platforms.

Features

- Rugged and compact: packaged in louvered aluminum with protected output terminals to withstand the harshest environments
- 1500 watts of output power
- Redundancy diodes allow paralleling of units
- Full electronic protection via input protection such as a thermal fuse and inrush current limiting

Technical Specifications

Part No.	RMT-8
AC Input	95-265 VAC 47-440 Hz
DC Output	24 VDC at 53 amps
Size L x W x H (inches)	15.5 x 7.75 x 6.25
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 minimum
Temperature Drift	0.03% per C over temperature range

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Virginia Beach, Virginia