

# AC/DC Power Supply

## RMT-8



## 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**

## Overview

The RMT-8 is a compact AC to DC power supply in a rugged enclosure making it ideal 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.

## Applications

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

## One Source, Many Solutions

The RMT-8 is an example of the broad capabilities of Ultralife Communications Systems to provide products, systems and 'concept to reality' engineering solutions to the military and defense industries. Ultralife offers a wide range of products from batteries, RF amplifiers, chargers, power adapters, speakers, cables/connectors, equipment mounts

and case equipment.

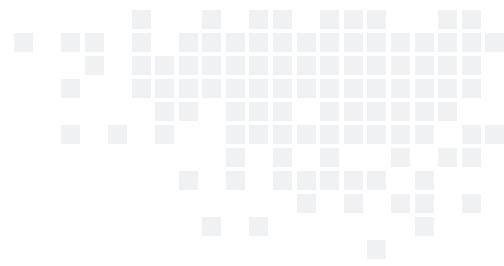
As a worldwide leader in power solutions and accessories, Ultralife customers benefit from a company that is one source for many solutions.

When customers have totally new or unique requirements or need adaptations to meet mission critical program requirements, our design and engineering teams can provide extensive services ranging from mechanical, electrical, software and testing. Based on your defined needs, we provide total solutions including costing, prototyping, testing and manufacturing.

Ultralife Communications comprises two brands: McDowell Research and AMTI.

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### Technical Specifications:

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