

RMT-8

AC/DC High Output Power Supply



Operation Manual

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Chapter 1 - General Information

1.1 Scope

This manual has been prepared by McDowell Research, an Ultralife Company for the purpose of providing the user information necessary to understand and maintain the RMT-8 AC/DC High Output Current Power Supply.

- **Chapter 1 – General Information**

- This chapter provides safety and important information about the RMT-8.

- **Chapter 2 – Operation**

- This chapter provides information necessary for operating the RMT-8, and theory of operating procedures describing how the RMT-8 accomplishes its intended purpose.

- **Chapter 3 – Maintenance**

- This chapter provides information regarding RMT-8 preventive care and corrective maintenance procedures.

1.2 Introduction

- 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.

1.3 Important Safety Instructions

- A. This manual contains important safety and operating instructions for the RMT-8 AC/DC High Output Current Power Supply.
- B. Before using the RMT-8, read all instructions and cautionary markings on the Power Supply.
- C. Use of an attachment not recommended or sold by the manufacturer may result in risk of fire, electric shock, or personal injury.
- D. Pull by plug rather than cord when disconnecting Power Supply.
- E. Make sure cords are positioned so that they will not be stepped on, tripped over, or otherwise subjected to damage or stress.
- F. Do not operate the Power Supply with damaged cable or connector - replace it immediately.
- G. Do not operate Power Supply if it has received a sharp blow, been dropped, or otherwise damaged in anyway; take it to a qualified serviceman.
- H. Do not disassemble Power Supply; take it to a qualified serviceman when service or repair is required.
- I. Do not place the unit in liquid or allow to accrue moisture, this may cause a malfunction of required internal equipment or cause harm to the operator and ancillary equipment.

1.4 Serviceable Parts and Repair

The RMT-8 has **NO** user serviceable parts. Units requiring repair should be sent to a qualified service depot for repair or follow instructions in the maintenance chapter of this manual.

1.5 Functional Description

- **Power Specifications**

- AC Input Range 95 to 265 VAC, 47 to 440 Hz
- DC Output 28 VDC @ 53 Amps
- Output Ripple 1% of output voltage, peak to peak
- Power Factor .98 (typical) at full load for entire input range

- **Environmental Specifications**

- Operating Temperature -30° C to 55° C
- Storage Temperature -50° C to 65° C
- Operating Altitude 27,000 Ft
- Storage Altitude 55,000 Ft
- Humidity 95% Relative

1.6 Physical Parameters

- **Length:** **15.5 inches**
- **Width:** **7.75 inches**
- **Height:** **6.25 inches**
- **Weight:** **19 Lbs. with AC Input Power Cable**

1.7 Equipment Provided

Equipment	Quantity
RMT-8 Operational Manual	1
RMT-8 AC/DC High Output Current Power Supply	1

1.8 External Components

- 1 Breaker Switch
- 1 LED Lens

Chapter 2 - Operation

2.1 Operating Procedures

The subsequent sections will list in chronological order how to operate the machine safely and efficiently.

2.2 Start Up

- Connect the AC input power cable into a power supply and toggle the switch on.

2.3 Controls and Indicators

- The RMT-8 has one green light emitting diode (LED) located below the switch.
 - The LED indicates the recognition of a power source.
 - When the led is on the RMT-8 is receiving power.
- The switch has two positions on and off, which are properly labeled. The switch also works as a breaker.
 - The “ON” position is up.
 - The “OFF” position is down.

Chapter 3 – Maintenance and Warranty Information

3.1 Preventative Maintenance

All maintenance procedures should be in the subsequent sections.

3.2 Dirt and Dust

All external components to the RMT-8 can be cleaned with a water dampened non-abrasive cloth and allowed to air dry or wipe dry with a clean dry non-abrasive cloth.

3.3 Oils and Grease

All external components of the RMT-8 can be cleaned with a mild soap/water solution dampened non-abrasive cloth. Rinse with water dampened non-abrasive cloth and allowed to air dry or wipe dry with a clean dry non-abrasive cloth.

3.4 Corrective Maintenance

The RMT-8 has **NO** user serviceable parts. Units requiring corrective maintenance should be sent to McDowell Research for repair. Contact information is provided below in section 3.6.

3.5 WARRANTY MAINTENANCE

Warranty Statement

4 years for equipment shipped after May 1, 2004

3 years for equipment shipped prior to May 1, 2004

McDowell Research warrants to its customers that the products it manufactures and sells will be free from defects in materials and workmanship for a period of four (4) years for equipment shipped after May 1, 2004.

This warranty shall not apply to any defect, failure or damage caused by improper use or inadequate maintenance and care. McDowell shall not be obligated to provide service under this warranty to repair, service, or modify these products.

In order to obtain service under this warranty, customers must return a failed unit to McDowell with a description of the failure, contact information (in case questions arise and to speed up processing of guarantee claims) and finally a return shipping address. McDowell will return any failed unit at McDowell's cost.

NOTE: THIS WARRANTY DOES NOT APPLY TO BATTERIES SUPPLIED BY MCDOWELL RESEARCH. ALL BATTERIES SUPPLIED BY MCDOWELL RESEARCH ARE WARRANTIED FOR 90 DAYS FROM SHIPMENT.

3.6 Contact Information:

Please call (254) 752-1411 to obtain an RMA number prior to returning any failed unit(s) to:

McDowell Research, an Ultralife Company
300 South 8th Street
Waco, Texas 76701
Phone: (254) 752-1411
Fax: (254) 752-1812

Online RMA requests can be located and submitted at:
<http://www.mcdowellresearch.com/shop/RMArequest.asp> or
service@mcdowellresearch.com