Charger/Power System for the AN/PRC-148 (MBITR)
MRC-42



MRC-42-01

MRC-42-02

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.

Features

- **Variable input power: 11-36 VDC**
- **MIL-STD-1275 compliant: allows operation from virtually any DC power source**
- **Allows safe and effective recharge of the UBI-2590 battery**
- **Auxiliary DC output to operate optional MRC-67A amplified speaker**

Overview

The MRC-42 provides power to the AN/PRC-148 radio and optional 20-watt amplifier. The solution comprises an MRC-42-02 power supply/charger that powers the MRC-42-01 battery box and the optional MRC-77A amplified speaker. The battery box provides power to the transceiver and an optional 20-watt amplifier.

One Source, Many Solutions

The MRC-42 is another 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.

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Technical Specifications:

Part No.	MRC-42
DC input	11-36 VDC
DC output	28 VDC at 2 amps, 5 amps for 60 minutes
Size: MRC-42-01	5.5”L x 5.3”W x 3”H
Size: MRC-42-02	5.625”L x 2.4”W x 4”H
Weight: MRC-42-01	1 lb.
Weight: MRC-42-02	2.5 lbs.
Operating temperature	-50° to +55° C
Storage temperature	-60° to +75° C
Operating altitude	27,000 ft.
Storage altitude	55,000 ft.
Immersion	10 ft.
Humidity	90% relative
Optional battery	UBI-2590 rechargeable lithium-ion

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