

# MRC-44

## Battery Box

### Technical Datasheet

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### Overview

The MRC-44 is a watertight, single battery enclosure providing a regulated and protected output from a standard military xx90 series battery. Overpressure and equalization features are provided for safety.

Providing for nominal 12 VDC operations, the MRC-44 is well suited to provide a safe and secure source of power for many of today's modern hand-held electronic devices such as hand-held radio and tactical receivers. Designed with the tactical environment in mind, the MRC-44 meets a variety of MIL-STD-810 environmental achievements as well and MIL-STD-461 for EMI/RFI assuring that the MRC-44 is a clean source of power for today's sensitive electronics.

Operation is as simple as installing a battery, securing the lid, and attaching the power cable for your device.

### Technical Specifications

|                         |                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part No.                | MRC-44                                                                                                                                                                                                                                                                                                                                                                       |
| Power Output            | 10-14VDC<br>(dependent upon battery voltage level)                                                                                                                                                                                                                                                                                                                           |
| Size H x W x D (inches) | 2.8 x 4.75 x 5.32                                                                                                                                                                                                                                                                                                                                                            |
| Weight                  | < 1 lb.                                                                                                                                                                                                                                                                                                                                                                      |
| Compatible Batteries    | <ul style="list-style-type: none"> <li>• BA-5390 Lithium Manganese Dioxide</li> <li>• BA-5590 Lithium/Sulfur Dioxide</li> <li>• UBI-2590 Rechargeable Lithium Ion</li> <li>• BB-2590 Rechargeable Lithium Ion</li> <li>• BB-390 Nickel Metal-Hydride</li> <li>• BB-490 Sealed Lead-Acid</li> <li>• BB-590 NiCad</li> <li>• and other similar construct of battery</li> </ul> |

### MIL-STANDARDS Include

- Vibration
- Shock-functional
- Temperature
  - Storage -32°C to +71°C (-25.6°F to +159.8°F)
  - Operational -32°C to +49°C (-25.6°F to +120.2°F)
- Altitude
  - Storage 37,000 ft
  - Operational 15,000 ft
- Humidity
- Sand & Dust
- Immersion 1 meter, 30 minutes
- Salt Fog
- EMI – Mil-Std 461G
- MTBF greater than 30,000 hours

### Safety

- Overpressure
- Equalization
- TB 43-6135 (CECOM Safety Office Technical Bulletin) compliant

### Short Circuit Protected

### Reverse Polarity Protected

### Aluminum Construction