THALES

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- Battle Proven
- Immersible Up to 20 Meters
- Rugged
- Integrated Protection for Security
- Internal Fuel Gauge for Accurate Capacity Status
- Easy Twist to Attach

MBITR/JEM Battery Family

FOR THE AN/PRC-148 FAMILY OF RADIOS

MBITR/JEM Battery Family

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The MBITR/JEM battery family supports the AN/PRC-148 Multiband Inter/Intra Team Radio (MBITR), AN/PRC-148 JTRS Enhanced MBITR (JEM), PRC6809, and other Radios Using the AN/PRC-148 Battery Interface.

TECHNICAL SPECIFICATIONS

GENERAL SPECIFICATIONS [6.8 Ah]

- Long-Life Rechargeable Li-Ion Battery 6.8 Ah
  Part Numbers: 1600842-2 or 1600842-1 (Metal Case 6.8Ah)
  - Watt Hour Rating: 72Wh typical
  - Nominal Capacity: 6800mAh at 25°C
  - Mission Life: >15 hours run time at 5W with AN/PRC-148 MBITR and >12 hours with AN/PRC-148 JEM using the TIA-603B duty cycle (80:10:10) @25°C
  - Fuel Gauge:
    - Texas Instruments Impedance Track™
    - <1% error in battery lifetime,
    - Does not need Calibration Cycle
    - Over Discharge Zero-Voltage Charge Capable
- Cycle Life:
  - After 300 full charge/discharge cycle, the battery will have >70% of its nominal capacity
  - After 1000 typical charge/discharge cycle, the battery will have >70% of its nominal capacity
    - Equivalent Lithium Content (ELC): 6.12 grams
    - Testing and certification: United Nations 'Transportation of Dangerous Goods', Manual of Tests and Criteria, Part III, Subsection 38.3, Class 9, Lithium Batteries

PHYSICAL & ELECTRICAL PARAMETERS

- Finish: Matte Black
- Height: 3.28 inches (8.33 cm)
- Width: 2.63 inches (6.68 cm)
- Depth: 1.52 inches (3.86 cm)
- Volume: <13.5 cubic inches (221.2 cubic cm)
- Weight: < .84 lb (381.0 g)
- Voltage: 10.8V nominal
- Peak Current: 8A

ENVIRONMENTAL PARAMETERS

- Operating Temperature: -30 to +60°C (Reduced run time at lower temperatures)
- Storage Temperature: -40 to +71°C - (storage for long periods at extreme temperatures will cause degradation in performance)
- Humidity: 95% non-condensing relative humidity at +60°C Per MIL-STD-810F, Method 507.4
- Altitude: 37,000 (MIL-STD-810F) and 11.6kPa (50,000 feet) UN/DOT
- Immersion: 20 meters (MIL-STD-810F)
- Drop: Per MIL-STD-810F, 1 meter on smooth concrete
- Salt Fog: Per MIL-STD-810F, Method 509.4, Procedure I, battery shall be operational without corrosion when attached to AN/PRC-148 radio, or with the approved protective cap fitted to battery

ADDITIONAL PROTECTION

- Short Circuit Discharge Protection
- Short Circuit Charge Protection
- Over Current Discharge Protection
- Over Current Charge Protection
- Individual Cell over Voltage Protection
- Battery Pack over Voltage Protection
- Individual Cell under Voltage Protection
- Battery Pack under Voltage (Over Discharge) Protection
- Reverse Polarity Charge Protection
- ESD protection per EN6100-4-2:2001-4 8KV contact and 15KV air

CHARGING PARAMETERS

- Charge Temperature: -20 °C to 50°C
- Thales Charger Compatibility: UBC, UBC-Lite, eMBUC,MUBC, MA6751, legacy chargers such as 1600652, 1600653, 1600654, 1600689, 1600690
- Additional Charging Capability: Batteries can also be charged in Thales Base Station, Tactical Repeater, Vehicle Adapter, Vehicle Adapter Amplifier, Special
- Soldier Power Adapter Interface (SPAI)

**Notes:* *A Material Safety Data Sheet [MSDS] is not required for this part based on a Class 9 100Wh limit. This document can be used as a Product Safety Data Sheet [PSDS].*

➢ Specifications are subject to change without notice.

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