

- 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





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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 1600842-9 (without twist on cap), 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

> Specifications are subject to change without notice.

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].