

7.0Ah Battery for the AN/PRC-148 Tactical Handheld Radios

Rugged and
Battle Proven



7.0Ah Battery

The 7.0Ah metal battery is designed to support Thales' line of tactical handheld radios. Specifically, the 7.0Ah metal battery variant was designed for use with the dual channel radios like the AN/PRC-148C/D IMBITR where power demands are higher than in single channel radios.

The 7.0Ah plastic battery variant will support our single channel radios, such as the PRC6809, AN/PRC-148 MBITR and the AN/PRC-148 JTRS Enhanced MBITR (JEM).

**The 7.0Ah plastic battery should not be used with the AN/PRC-148C/D radios.*

***The 7.0Ah metal battery will not charge when used with the AN/PRC-148C/D tactical handheld radio in a Vehicle Adapter Amplifier configuration. Reference Part Number 1600842-11.*



Technical Specifications

Key Features

- Immersible Up to 20 Meters
- Integrated Safety Protection
- Internal Fuel Gauge for Accurate Capacity Status
- Easy Twist to Attach

General Specifications [7.0 Ah]

Long-Life Rechargeable Li-Ion Battery 7.0 Ah

Part Numbers:

1600842-1 7.0Ah (Metal Battery)
1600842-2 7.0Ah (Plastic Battery)
1600842-11 7.0Ah (Metal Battery for AN/PRC-148C/D radios for charging in the VRC-132 IMBITR Vehicle Adapter Amplifier)

Watt Hour Rating: 74Wh typical

Nominal Capacity: 7000mAh at 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

Equivalent Lithium Content (ELC): 6.3 for 3.5Ah cells

Testing and certification: United Nations 'Transportation of Dangerous Goods', Manual of Tests and Criteria, Part III, Subsection 38.3, Class 9, Lithium Batteries

Specifications are subject to change without notice.

Thales Defense & Security, Inc.

22605 Gateway Center Drive | Clarksburg, MD 20871
TF+1.800.914.0303 | P: +1.240.864.7643
solutions@thalesdsi.com | www.thalesdsi.com

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: Approximately 1.0 lb

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 EN61000-4-2:2001-4 8KV contact and 15KV air

Charging Parameters

Charge Temperature: 0 °C to 50°C

Thales Charger Compatibility: UBCLite and UBC family of chargers. Legacy chargers 1600652, 1600653, 1600654, 1600689, 1600690

Additional Charging Capability: The 7.0Ah Plastic Battery can be charged in the Thales Base Station, Tactical Repeater, Vehicle Adapter, Vehicle Adapter Amplifier, and Soldier Adapter Interface (SPAI) for the PRC6809, AN/PRC-148 MBITR and the AN/PRC-148 JEM radios.



2251:012021:V10

Thales has a policy of continuous development and improvement and consequently the equipment may vary from the description and specification in this document. This document may not be considered as a contract specification. Graphics do not indicate use or endorsement of the featured equipment or service. Copyright © 2021 Thales