

**BATTERY, RECHARGEABLE, LITHIUM-ION  
AN/PRC-148 (MBITR) BATTERY**



**TAMCN: N/A**

**I.D. N/A**

**NSN: 6140-01-487-1153**

**Functional Description**

The MBITR battery is a Lithium-Ion rechargeable battery. This battery is used for the AN/PRC-148 Multi-band Inter/Intra Team Radio.

**Technical Description**

**Battery**

Manufacturer: Thales  
 Model: SKU 1600515-7  
 Color: Black  
 Warranty: 1YR  
 (for rechargeables)  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Depth (in): 1.52  
 Width (in): 2.63  
 Height (in): 2.58  
 Weight (lbs): 0.793

**Performance Data**

Voltage:  
 - Maximum: 12.75V  
 - Nominal: 12V

**Specifications**

Temperature:  
 - Optimum Charging:  
 - Extreme Charging:  
 - Operating: -23.8°F to 140°F  
 - Storage: -27.4°F to 159.8°F

Cut-off Voltage:

Thermal cut-offs:

Capacity: 4.8 AH

- Resettables:  
 - Permanent (dead battery):

Self discharge rate: Approx 1 yr @ 77 °F

Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481/U  
 (VMC/VMBC)

**Interchangeable with**

N/A

**Adapters required**

J-6588/P - SPC      J-6520A/U – VMC/VMBC      J-6586/U – VMC/VMBC

**NOTE:** N/A

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

**BATTERY, RECHARGEABLE, LITHIUM-ION  
AN/PRC-152 (FALCON) BATTERY**



**TAMCN: N/A**

**I.D. N/A**

**NSN: 6140-01-548-7566**

**Functional Description**

The FALCON battery is a Lithium-Ion rechargeable battery. This battery is used for the AN/PRC-152 Multi-band Hand Held radio.

**Technical Description**

**Battery**

Manufacturer: Harris  
 Model: 12401-2100-02  
 Color: Green  
 Warranty: 1YR  
 (for rechargeables)  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Depth (in):  
 Width (in):  
 Height (in):  
 Weight (lbs):  
 Cube (ft<sup>3</sup>):

**Performance Data**

Voltage:  
 - Maximum:  
 - Nominal: 7.2V

**Specifications**

Temperature:  
 - Optimum Charging:  
 - Extreme Charging:  
 - Operating: -23.8°F to +140°F  
 - Storage:

Cut-off Voltage:

Thermal cut-offs:

Capacity:

- Resettables:  
 - Permanent (dead battery):

Self discharge rate:

Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481/U (VMC/  
 VMBC)

**Interchangeable with**

N/A

**Adapters required**

J-6878/P SPC

J-6585/U – VMC/VMBC

**NOTE: N/A**

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

**BATTERY, RECHARGEABLE, LITHIUM-ION  
AN/PRC-153 (IISR) BATTERY**



**TAMCN: N/A**

**I.D. N/A**

**NSN: 6140-01-548-7367**

**Functional Description**

The Integrated Intra Squad Radio (IISR) battery is a Lithium-Ion rechargeable battery. This battery is used for the AN/PRC-153 IISR Radio.

**Technical Description**

**Battery**

Manufacturer: Motorola  
 Model:  
 Color: Black  
 Warranty: 1YR  
 (for rechargeables)  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Depth (in):  
 Width (in):  
 Height (in):  
 Weight (lbs):  
 Cube (ft<sup>3</sup>):

**Performance Data**

Voltage:  
 - Maximum: 7.5V  
 - Nominal: 7.2V

**Specifications**

Temperature:  
 - Optimum Charging:  
 - Extreme Charging:  
 - Operating: -22°F to +140°F  
 - Storage: -40°F to +185°F

Cut-off Voltage:

Thermal cut-offs:

Capacity:

- Resettables:  
 - Permanent (dead battery):

Self discharge rate:

Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 VMC/VMBC

**Interchangeable with**

N/A

**Adapters required**

J-6879/U - SPC VMC/VMBC BTA70862

**NOTE:** N/A

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

## BATTERY, RECHARGEABLE, NICKEL METAL HYDRIDE (BB-326/U)



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-533-7674**

### Functional Description

The BB-326/U is a Nickel Metal Hydride rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications and must be conditioned prior to use to obtain maximum capacity.

### Technical Description

**Battery**

Manufacturer: Bren-Tronics  
 Model: BT-70787  
 Color: Olive Green  
 Warranty: 4 years from MFG date  
 (for rechargeables)  
 Shelf life: 4 Years  
 (for primaries)

**Performance Data**

Voltage:  
 - Maximum: 30V  
 - Nominal: 24V  
 Cut-off Voltage: N/A  
 Capacity: 30mAh  
 Self discharge rate: 30% per month

**Dimensions**

Length (in): 1.39  
 Width (in): 1.39  
 Height (in): 3.63  
 Weight (lbs): .59

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: 40°F to 122°F  
 - Operating:  
 - Storage:  
 Thermal cut-offs:  
 - Resettables:  
 - Permanent (dead battery):

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481B/U (VMC)

**Interchangeable with**

N/A

**Adapters required**

J-6356A/P - SPC      J-6520A/U – VMC

**NOTE:** Replaces the BB-516/U.

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

**BATTERY, RECHARGEABLE, NICKEL METAL HYDRIDE  
(BB-388A/U)**



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-490-4313**

**Functional Description**

The BB-388A/U is a Nickel Metal Hydride rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications and must be conditioned prior to use to obtain maximum capacity.

**Technical Description**

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-388A/U  
 Color: Olive Green  
 Warranty: 4 years from MFG  
 (for rechargeables) date  
 Shelf life: 4 Years  
 (for primaries)

**Performance Data**

Voltage:  
 - Maximum: 13.2V  
 - Nominal: 13.2V  
 Cut-off Voltage: 11V  
 Capacity: 1.5Ah @ 13.2V  
 Self discharge rate: 30% per month

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481B/U (VMC)

**Adapters required**

J-6357A/P - SPC

**Dimensions**

Depth (in): 3.545  
 Width (in): 1.224  
 Height (in): 3.485  
 Weight (lbs): 1.0

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: 40°F to 122°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F  
 Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery): 194°F ± 5°F

Complete discharge device: N/A

**Interchangeable with**

BA-5588A/U

J-6520A/U – VMC

**NOTE:** Replaces the BB-588/U.

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

## BATTERY, RECHARGEABLE, NICKEL METAL HYDRIDE (BB-390B/U)



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-490-4317**

### Functional Description

The BB-390B/U is a Nickel Metal Hydride rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronics applications and must be conditioned prior to use to obtain maximum capacity.

### Technical Description

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-390B/U  
 Color: Olive Green  
 Warranty: 4 years from MFG  
 (for rechargeables) date  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Depth (in): 4.40  
 Width (in): 2.45  
 Height (in): 5.00  
 Weight (lbs): 3.88

**Performance Data**

Voltage:  
 - Maximum: One 30V or two 15V sections  
 - Nominal: One 24V or two 12V sections  
 Cut-off Voltage: 20V or 10V  
 Capacity: 4.9Ah @ 24V  
 9.8Ah @ 12V  
 Self discharge rate: 30% per month  
 Maximum Current: 10A in 24V mode

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: 40°F to 122°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F  
 Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery) 194°F ± 5°F  
 Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481B/U  
 (VMC/VMBC)

**Interchangeable with**

BB-2590/U, BA-5590/U

**Adapters required**

J-6358B/P - SPC

J-6581/U, J-6583/U, J-6520/U, J-6585/U and J-6586/U  
 – VMC/VMBC

**NOTE:** Replaces the BB-390A/U, BB-490/U, BB-590/U, and the BB-690/U. The BB-390B/U can be charged using the PP-8444A/U (UPC).

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

**BATTERY, RECHARGEABLE, NICKEL CADMIUM (BB-503A/U)**



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-419-8193**

**Functional Description**

The BB-503A/U is a Nickel Cadmium rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications and must be conditioned prior to use to obtain maximum capacity.

**Technical Description**

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-503A/U  
 Color: Olive Green  
 Warranty: 4 years from MFG  
 (for rechargeables) date  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Depth (in): 3.660  
 Width (in): 1.540  
 Height (in): 5.050  
 Weight (lbs): 1.43

**Performance Data**

Voltage:  
 - Maximum:  
 - Nominal: 4.8V  
 Cut-off Voltage: 4.0V  
 Capacity: 4.0Ah @ 4.5V  
 Self discharge rate: 40% per month

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: -4°F to 122°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F  
 Thermal cut-offs:  
 - Resettles: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery): 194°F ± 5°F  
 Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8333/U (CASP)

**Interchangeable with**

N/A

**Adapters required** J-6355/P – SPC

**NOTE:** The BB-503A/U can be charged using the PP-8444A/U (UPC).

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

## BATTERY, RECHARGEABLE, NICKEL CADMIUM (BB-516A/U)



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-419-8191**

### Functional Description

The BB-516A/U is a Nickel Cadmium rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications and must be conditioned prior to use to obtain maximum capacity.

### Technical Description

#### Battery

Manufacturer: Bren-Tronics  
 Model: BB-516A/U  
 Color: Olive Drab  
 Warranty: 4 years from MFG date  
 (for rechargeables)  
 Shelf life: N/A  
 (for primaries)

#### Dimensions

Depth (in): 1.391  
 Width (in): 1.391  
 Height (in): 3.625  
 Weight (lbs): 0.59

#### Performance Data

Voltage:  
 - Maximum:  
 - Nominal: 24V  
 Cut-off Voltage:  
 Capacity: 250mAh @ 24V  
 Self discharge rate: 40% per month

#### Specifications

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: 40°F to 122°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F  
 Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery) 194°F ± 5°F  
 Complete discharge device: N/A

#### Recommended Chargers

PP-8498/U (SPC)  
 PP-8333/U (CASP)  
 PP-8481B/U (VMC)

#### Interchangeable with

BB-326/U

#### Adapters required

J-6356/P – SPC      J-6520A/U - VMC

**NOTE:** Replaced the BB-516/U. This battery (BB-516A/U) has since been replaced by the BB-326/U. The BB-516A/U can be charged using the PP-8444A/U (UPC).

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

## BATTERY, RECHARGEABLE, NICKEL CADMIUM (BB-557/U)



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-071-5070**

### Functional Description

The BB-557/U is a Nickel Cadmium rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications and must be conditioned prior to use to obtain maximum capacity.

### Technical Description

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-557/U  
 Color: Olive Green  
 Warranty: 4 years from MFG  
 (for rechargeables) date  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Depth (in): 4.125  
 Width (in): 1.437  
 Height (in): 3.916  
 Weight (lbs): 1.50

**Performance Data**

Voltage:  
 - Maximum:  
 - Nominal: One 24V or two 12V sections  
 Cut-off Voltage:  
 Capacity: 1.1Ah @ 24V  
 2.2Ah @ 12V  
 Self discharge rate: 40% per month

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: 40°F to 100°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F  
 Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery): 194°F ± 5°F  
 Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481B/U (VMC)  
 PP-8333/U (CASP)

**Interchangeable with**

BA-5557A/U

**Adapters required**

J-6523A/P - SPC      J-6584/U - VMC

**NOTE:** N/A.

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

**BATTERY, RECHARGEABLE, LITHIUM ION (BB-2590/U)**



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-490-4316**

**Functional Description**

The BB-2590/U is a Lithium Ion rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications. Performs well in high temperatures compared to other rechargeable batteries. No conditioning is required prior to use. The PP-8497/U discharge cap should only be used as a quick check of the BB-2590/U. There is no requirement to discharge the BB-2590/U.

**Technical Description**

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-2590/U  
 Color: Tan  
 Warranty: 4 years from MFG  
 (for rechargeables) date  
 Shelf life: N/A

**Dimensions**

Depth (in): 4.40  
 Width (in): 2.45  
 Height (in): 5.00  
 Weight (lbs): 3.20

**Performance Data**

Voltage:  
 - Maximum: One 33V or two 16.5V sections  
 - Nominal: One 28.8V or two 14.4V sections  
 Cut-off Voltage: 20V or 10V  
 Capacity: 6.2Ah @ 33V  
 12.4Ah @ 16.5V  
 Self discharge rate: 10% per month

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: -4°F to 122°F  
 - Operating: -4°F to 131°F  
 - Storage: -40°F to 104°F  
 Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery): 194°F ± 5°F  
 Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481B/U  
 (VMC/VMBC)

**Interchangeable with**

BA-5590/B, BB-390B/U  
 BA-5390/U

**Adapters required**

J-6358B/P – SPC J-6581/U, J-6583/U, J-6586/U, J-6585/U and J-6520/U – VMC/VMBC

**NOTE:** This battery has a higher initial voltage than the BB-5590/U or the BB-390B/U batteries, which may cause problems in some equipment items. Replaces the BB-590/U and BB-690/U. This battery cannot be charged using the UPC (PP-8444A/U) battery charger. The BB-2590/U is not approved for use in the Javelin Command Launch Unit.

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

**BATTERY, RECHARGEABLE, LITHIUM ION (BB-2600A/U)**



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-490-4311**

**Functional Description**

The BB-2600A/U is a Lithium Ion rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications. Performs well in high temperatures compared to other rechargeable batteries. No conditioning is required prior to use.

**Technical Description**

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-2600A/U  
 Color: Olive Green  
 Warranty: 4 years from MFG  
 (for rechargeables) date  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Length (in): 7.320  
 Diameter (in): 1.550  
 Weight (lbs): 0.69

**Performance Data**

Voltage:  
 - Maximum: 8.2V  
 - Nominal: 7.2V

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: -4°F to 122°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F

Cut-off Voltage:  
 Capacity: 4.6Ah @ 7.2V

Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery): 194°F ± 5°F

Self discharge rate: 10% per month

Complete discharge device: N/A

**Recommended Chargers**  
 PP-8498/U (SPC)  
 PP-8481B/U (VMC)

**Interchangeable with** BA-5600A/U

**Adapters required** J-6521/P - SPC

J-6584/U - VMC

**NOTE:** N/A.

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

**BATTERY, RECHARGEABLE, LITHIUM ION (BB-2800/U)**



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-490-5372**

**Functional Description**

The BB-2800/U is a Lithium Ion rechargeable battery with a "state of charge display." This battery is used for various military communications and electronic applications. No conditioning is required prior to use.

**Technical Description**

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-2800/U  
 Color: Olive Green  
 Warranty: 4 years from MFG  
 (for rechargeables) date  
 Shelf life: N/A

**Dimensions**

Length (in): 5.059  
 Diameter (in): 1.398  
 Weight (lbs): 0.5625

**Performance Data**

Voltage:  
 - Maximum: 8.2V  
 - Nominal: 7.2V

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: -4°F to 122°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F

Cut-off Voltage: 5V  
 Capacity: 3.7Ah @ 7.2V

Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery): 194°F ± 5°F

Self discharge rate: 10% per month

Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481B/U (VMC)

**Interchangeable with**

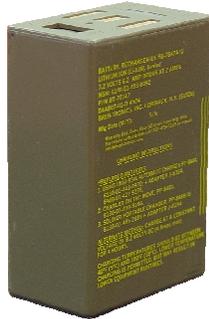
BA-5800A/U

**Adapters required:** J-6587/P - SPC J-6520A/U, J-6583/U, J-6586/U and J-6585/U - VMC

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**

## BATTERY, RECHARGEABLE, LITHIUM ION (BB-2847A/U)



**TAMCN: N/A**

**ID: N/A**

**NSN: 6140-01-493-8092**

### Functional Description

The BB-2847A/U is a Lithium Ion rechargeable battery with a “state of charge display.” This battery is used for various military communications and electronic applications. Performs well in high temperatures compared to other rechargeable batteries. No conditioning is required prior to use.

### Technical Description

**Battery**

Manufacturer: Bren-Tronics  
 Model: BB-2847A/U  
 Color: Tan  
 Warranty: 4 years from MFG date  
 (for rechargeables)  
 Shelf life: N/A  
 (for primaries)

**Dimensions**

Depth (in): 2.55  
 Width (in): 1.50  
 Height (in): 3.75  
 Weight (lbs): 0.85

**Performance Data**

Voltage:  
 - Maximum: 8.2V  
 - Nominal: 7.2V  
 Cut-off Voltage: 4V  
 Capacity: 4Ah @ 7.2V  
 Self discharge rate: 10% per month

**Specifications**

Temperature:  
 - Optimum Charging: 40°F to 100°F  
 - Extreme Charging: -4°F to 122°F  
 - Operating: -4°F to 122°F  
 - Storage: -4°F to 122°F  
 Thermal cut-offs:  
 - Resettables: 158°F ± 5°F resets @122°F  
 - Permanent (dead battery): 194°F ± 5°F  
 Complete discharge device: N/A

**Recommended Chargers**

PP-8498/U (SPC)  
 PP-8481B/U (VMC)

**Interchangeable with**

BA-5347/U

**Adapters required**

J-6354/P - SPC

J-6520A/U, J-6583/U, J-6586/U and J-6585/U - VMC

**NOTE:** N/A.

**Storage at high temperatures permanently degrades battery capacity of all batteries.**

**Check the manufactures MSDS for disposal information.**