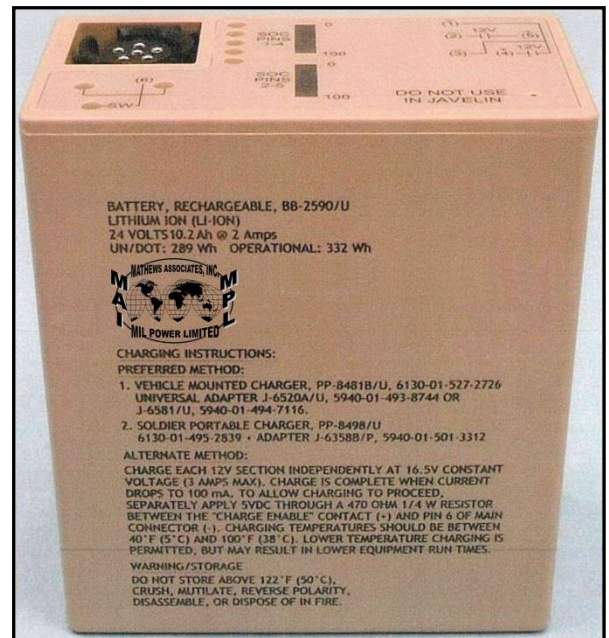


## BB-2590/U-HC Specification

- High capacity, 10.2Ah per section battery
- High performance rechargeable Lithium Ion battery with instantaneous start up
- Dual state of charge indicators (SOC). 2 separate 5 segment LCD's with constant display
- The SMBus complies with SMBus v1.1, SBDData v1.1
- Durable high impact plastic housing and connector enclosure
- High capacity, performance verified, hermetically sealed, lithium-ion cells
- Cells matched to within 2%
- Protection against over current and short circuit
- Protection against improper charge and over discharge
- Protection against over temperature

This battery meets the requirements of MIL-PRF-32052 for:

- Battery voltage
- Cycle life
- Immersion
- Mechanical and thermal shock
- Vibration
- Insulation resistance
- High rate discharge
- Low temperature discharge
- Full capacity discharge
- Retention of charge
- Cell safety
- Battery safety
- Interchangeability



## BB-2590/U-HC Technical Specification

For use in	SINGGARS & ATCS(PRC-104, 117, 119), Falcon (PRC-138, 117) KY-57, MXF430(V), AN/PSC-5, M22 & other equipment.
Replacement for	BB-2590/U, BB-390A/U, BB-390B/U, BB-490/U, BB-590/U, BA-5290/U, BA-5590/U, NSN: 6140-01-490-4316, NSN: 6140-99-676-4908
Cell chemistry	Lithium Ion
Colour	Desert tan
Nominal voltage	15V per section
Maximum voltage	16.8V per section
Over charge cutoff	17.2V per section
Under voltage cutoff	11.0V per section
Nominal capacity @ 23°C	20.4Ah in 15V mode, 10.2Ah in 30V mode @ 2A
Nominal capacity @ -20°C	>15Ah in 15V mode, >7.5Ah in 30V mode @ 2A
Nominal capacity @ 65°C	>18Ah in 15V mode, >9Ah in 30V mode @ 2A
Nominal energy	294 Wh
Continuous discharge current	20A in 15V mode, 10A in 30V mode
Pulse discharge current	36A in 15V mode, 18A in 30V mode - on for 5 seconds, off for 25 seconds
Instantaneous discharge current	23A-62A per section for 50 milliseconds, >62A per section for 200 microseconds
Short circuit cutoff	>62A per section for more than 200 microseconds
Shelf life when stored fully charged @ 23°C	8.0Ah after 1 year, 7.0Ah after 2 years, 6.0Ah after 3 years
Charge temperature range	41°F to 100°F, 5°C to 38°C
Operating temperature range	-4°F to 149°F, -20°C to 65°C
Over temperature cutoff	Temporary: 158°F, 70°C Permanent: 194°F, 90°C
Storage temperature range	-40°F to 104°F, -40°C to 40°C
Connector	Floating type per U.S Army DWG # SC-C-179495
Overall dimensions	5.0 in. x 4.4 in. x 2.45 in., 127mm x 112mm x 62mm
Weight	3.2lb, 1.45kg