Rechargeable Li-ion battery system BB 2847

8 V Rechargeable Lithium-ion (Li-ion) battery

The BB 2847 battery is based on High Energy Li-ion technology. The battery is housed in a molded plastic case with dual terminal interface. The battery includes a built in electronic protection circuit with LCD hands-free fuel gage.



Benefits

- Extended life and durabiity in rugged portable applications
- Wide operating temperature range
- Easy integration into military and civil applications

Key Features

- Robust molded plastic case
- Built in protection circuitry
- 5-segment LCD Fuel Gage
- Dual I/O terminals
- Wide temperature range
- High rate capability
- High cycle life/low fade
- Non-restricted to Class 9
- Battery is compatible with MIL compliant chargers

Typical Applications

- Applications where BA 5847 and BA 5347 are used
- AN/PM-34
- AN/PAS-13
- AN/PRS-7

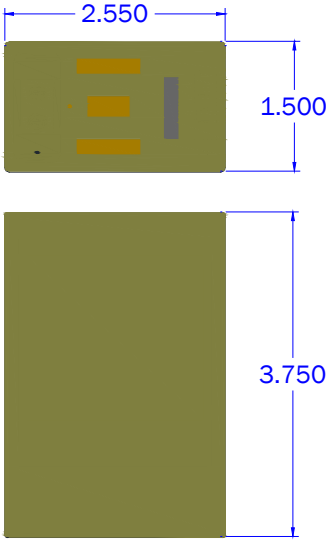
Electrical charachteristics	
Full charge voltage	8.3 V
Operating voltage	7.2 V
Cut-off voltage	5 V
Maximum constant current	7 A
Typical capacity at 10 W to 5 V cut-off	7.4 Ah / 53 Wh
Recommended charge	Constant current at C/2 rate(3.7A) with 8.3V limit End with timer or when current drops below 0.075 A
Temperature range	
Operating / storage	-30°C to +60°C /-22°F to +140°F
Charging	0°C to +50°C /+32°F to +130°F

Physical characteristics	Metric | Imperial
Maximum weight	483 g | 17 oz
Length	64.8 mm | 2.55 in
Width	38.1mm | 1.50 in
Height	95.3 mm | 3.75 in
Battery case	Plastic

References	
Reference specifications	MIL-PRF-32052/4 or Saft standard specification

saft

BB 2847



Dimensions (inches)

Built-in protection circuit
- Against over current/short circuit
- Against over charge/ over discharge
- Against over heating
- Against charging outside the recommended temperature range

Built-in fuel gauge
- 5 segment LCD state-of-charge indicator

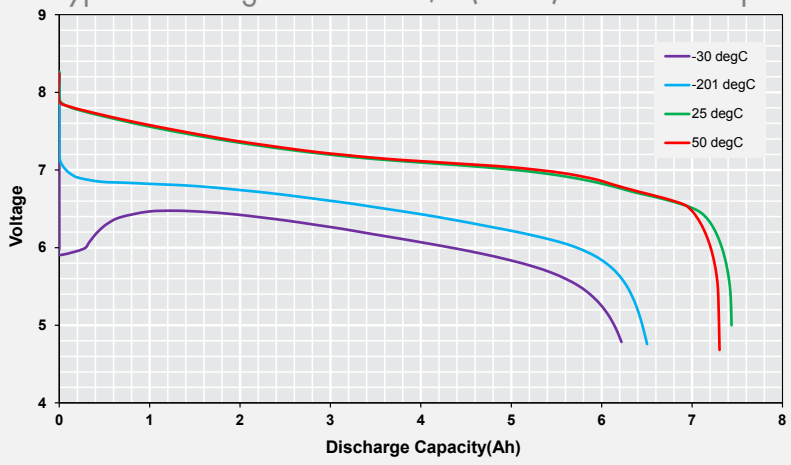
Dual terminal system

Rugged molded plastic case

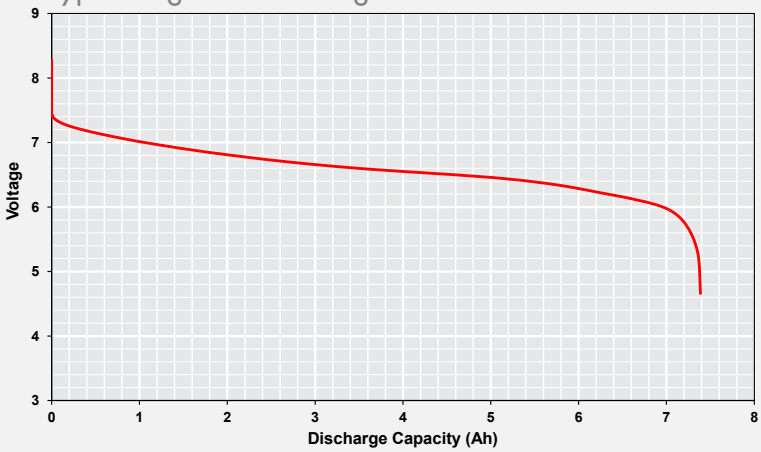
Storage
- Store in dry area not >30°C
- For long storage maintain battery at 15 - 50% state of charge

Handling
- Do not disassemble
- Do not remove the protection circuit
- Do not incinerate

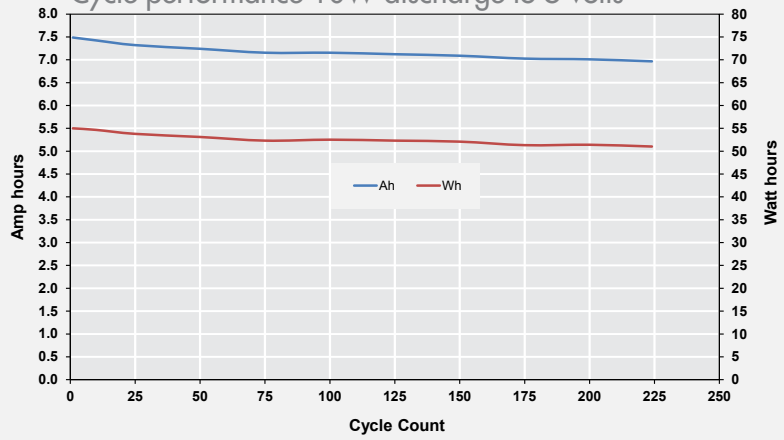
Typical discharge curves for C/2 (3.7 A) at various temps



Typical high rate discharge curve at 7 A



Cycle performance 10W discharge to 5 volts



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