Advanced Technology for Portable Electronics

Polymer Rechargeable Batteries

Anatomy of a Cell

Solid Construction...
The Ultralife Polymer Rechargeable battery combines a high-energy chemistry with state-of-the-art polymer technology. Every component of this battery is solid. There is no liquid that needs to be contained by a bulky, heavy, metal cell housing, as with all other batteries. As a result, Ultralife Polymer batteries offer significant advantages over other batteries — particularly prismatic Li-ion batteries that contain a liquid electrolyte. These advantages include:

- thinner and lighter weight
- superior safety and environmental characteristic
- revolutionary design flexibility

Ultralife Polymer technology gives engineers a battery so thin, lightweight, and powerful, it can revolutionize the way portable electronic products are designed.

Applications
- Ebook Readers
- Laptop Computers
- PDA's
- Cellular Phones
- GPS Units
General Characteristics

High Energy Density: See individual cell data sheets, available separately
Cell Voltage: 3.7 volts
Cell Thickness: As thin as 1.0 mm (six times thinner than any prismatic liquid Li-ion cell)
Cell Sizes: Customizable to almost any width and length; standard cell sizes shown on individual data sheets, available separately
Cell Configurability: Easily configured in series and/or parallel to meet any voltage and capacity requirement; some cells flexible enough to conform to curved surfaces
Cycle Life: >300 charge/discharge cycles at 100% DOD at C rate to 80% of initial capacity
Charging: Constant current charge (up to the C rate; C/2 recommended) to 4.2 volts; maintain 4.2 volts until current diminishes to C/10 or less; for additional technical considerations, refer to Technical Guide UBI-3050.
Charging Temperature: 0° C to +45° C
Storage Temperature: -40° C to +60° C
Operating Temperature: -20° C to +60° C
Discharge Profile: Flat at low current drains; sloping at high current drains
Self Discharge: Approximately 5% per month
“Memory” Effect: None
Environment: Environmentally friendlier than other batteries
Safety: Exceptional

FOR BATTERY UBC543483

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