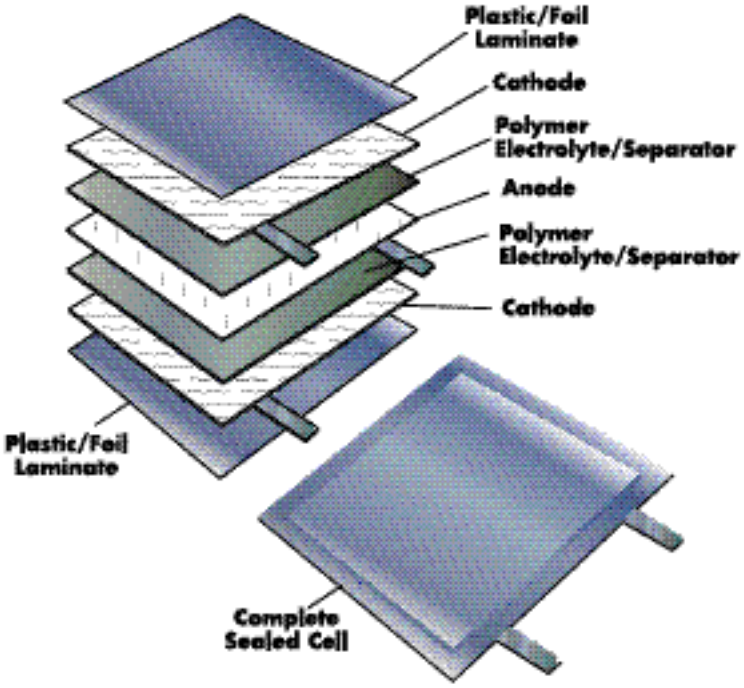
Advanced Technology for Portable Electronics

Polymer Rechargeable Batteries

Polymer System

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

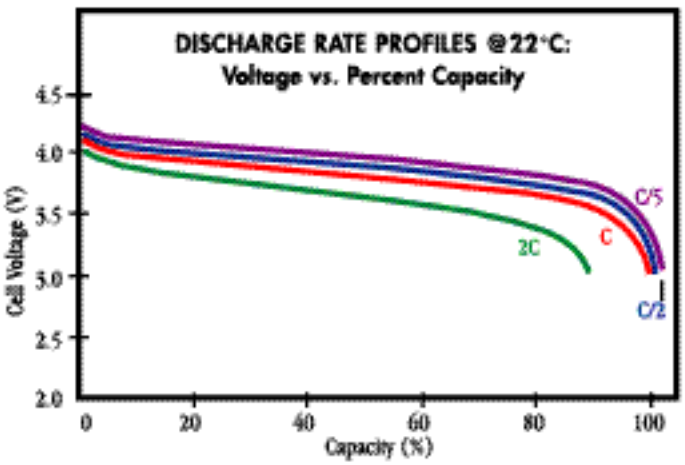
Ultralife Polymer technology gives engineers a battery so thin, lightweight, and powerful, it can revolutionize the way portable electronic products are designed.

Applications

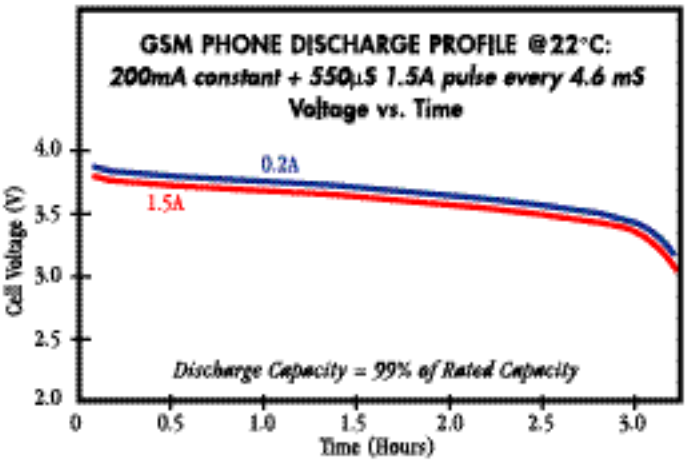
- Ebook Readers
- Laptop Computers
- PDA's
- Cellular Phones
- GPS Units

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



ULTRALIFE®
BATTERIES INC.

Headquarters
Ultralife Batteries, Inc.
2000 Technology Parkway
Newark, NY 14513 USA
Telephone: (315) 332-7100
Fax: (315) 331-7800

United Kingdom Offices
Ultralife Batteries (UK) Ltd.
18 Nuffield Way, Abingdon OX14 1TG England
Telephone: +44 (1235) 542600
Fax: +44 (1235) 535766

www.ultralifebatteries.com