

ER14505M: AA Size Spiral Cell

Technical Datasheet



Technical Specifications	
Part No.	ER14505M (UHR-ER14505)
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Thionyl Chloride
Voltage Range	2.0 to 3.7V
Nominal Voltage	3.6V
Nominal Capacity	2000mAh @ 1mA to 2.0V @ 23°C
Max. Continuous Discharge Current	400mA
Max. Pulse Discharge Current	Up to 800mA (life and temperature dependent)
Weight	19g
Operating Temperature	-55°C to 70°C 70°C to 85°C (max of 24 hours)
Storage Temperature ¹	-55°C to 70°C 70°C to 85°C (max of 24 hours)
Exterior/Housing	Stainless steel container
Terminals/Connector	Radial tabs / radial pins / axial leads / flying leads
Safety	AL-MSDS/RD-001 Material Safety Datasheet - MSDS041 Safety Guide UBM-5112
Transportation ²	Excepted from regulations - see Ultralife website
Quality Assurance	Ultralife manufacturing facilities are ISO 9001:2008 and ISO 14001:2004 registered. Its products are listed under the Component Recognition Program of Underwriters Laboratories (UL) and have passed UN transportation testing, which is required for international transportation of all lithium batteries.

Features

- High and flat operating voltage
 - High power and higher energy for the whole battery life
- High drain capability
 - Higher power applications
- Low self-discharge rate (<1% per year at 20°C)
 - Battery life higher than 10 years, depending on the application
- Hermetic glass-to-metal sealing
 - Avoid leakage, key for higher than 10 year battery life
- Non-flammable electrolyte
 - Safer operation in case of abuse
- PTC device
 - Safe operation in the event of a short circuit

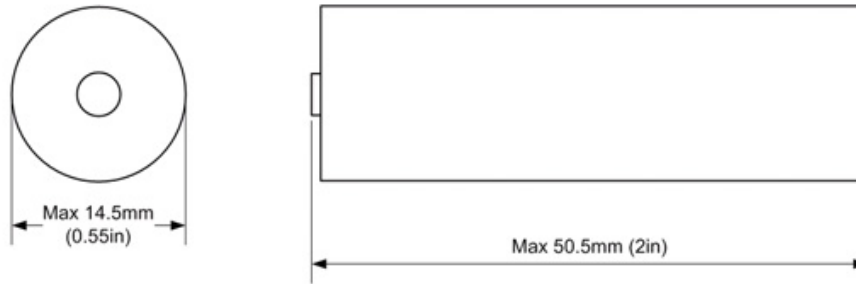
Typical Applications

- Military and other radio applications
- Alarm and security systems
- Beacons and emergency location transmitters
- GPS
- LED lighting
- Smart metering

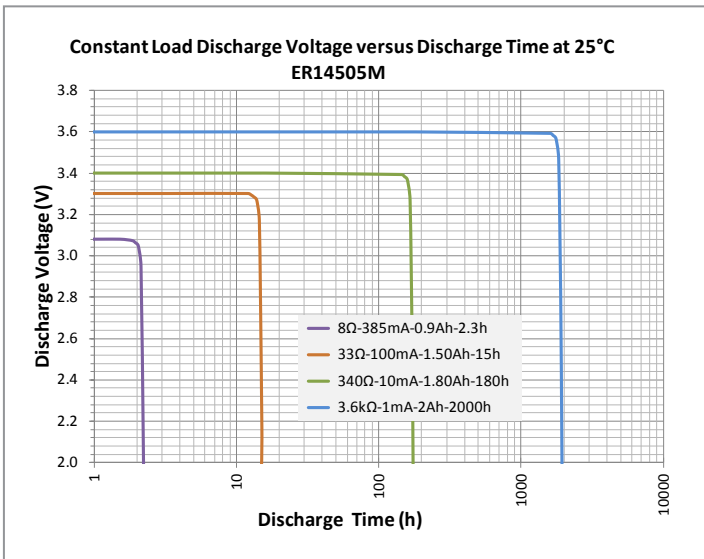
Notes

1. Cells should be stored in temperatures less than 30°C for a shelf-life of greater than five years.
2. A complete description of transportation regulations, lithium weights and transportation classifications is available on the Ultralife website.

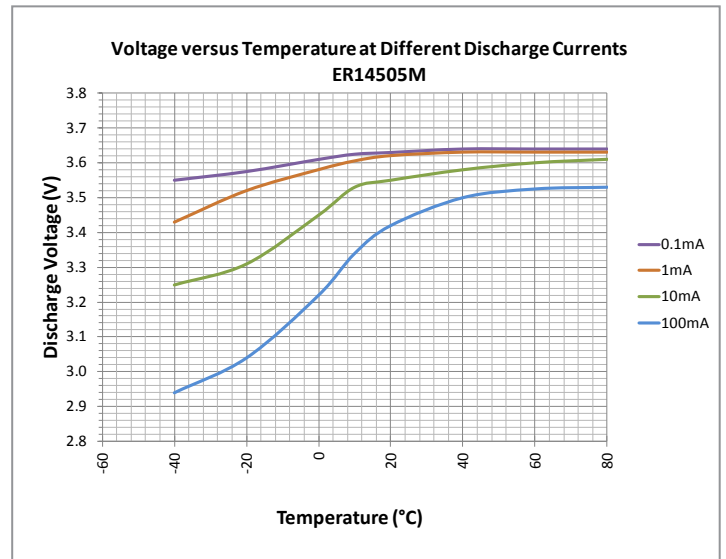
Dimensions



Typical Performance Graphs



High and flat voltage at high and low drain



High voltage at high drain even at -30°C