

ER14505: AA Size Bobbin Cell

Technical Datasheet



Technical Specifications	
Part No. ¹	ER14505 (UHE-ER14505-X)
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Thionyl Chloride
Voltage Range	2.0V to 3.7V
Nominal Voltage	3.6V
Nominal Capacity	2.4Ah @ 1.0mA to 2.0V @ 23°C
Max. Continuous Discharge Current	100mA
Max. Pulse Discharge Current	200mA
Weight	19g
Operating Temperature	-55°C to 70°C 70°C to 85°C (max of 24 hours)
Storage Temperature ²	-55°C to 70°C 70°C to 85°C (max of 24 hours)
Terminals/Connector	Flat Ni-plated end caps
Safety	Certified to UL1642 Material Safety Datasheet - MSDS095 Safety Guide UBM-5135
Transportation ³	Excepted from regulations for packages with gross mass of 2.5kg or less.
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 stable operating voltage
 - Higher power and higher energy for the whole battery life
- Superior drain capability
 - Higher power applications
- Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
 - Battery life higher than 10 years, depending on the application
- Hermetic glass-to-metal sealing
 - Avoid leakage, key for a higher than 10 year battery life
- Non-flammable electrolyte
 - Safer operation in case of abuse

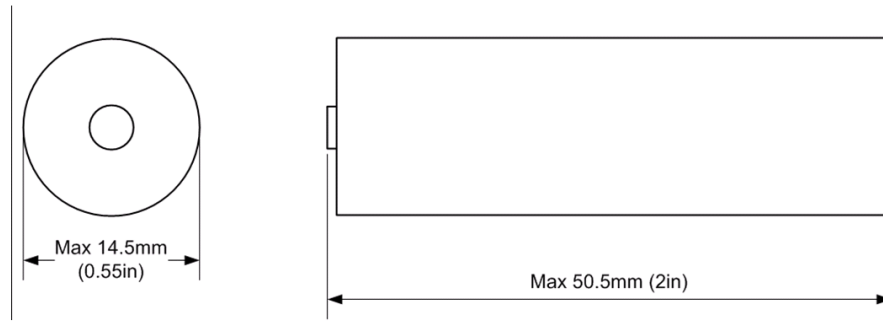
Typical Applications

- Utility metering devices & systems
- Alarm and security systems
- Machine to Machine (M2M) communications
- Automatic meter readers (AMR)
- Memory back-up
- Automotive electronics / telematics
- Industrial electronics
- Military and other radio applications
- Ultra low power devices
- Sonobuoys
- GPS tracking / mobile asset tracking

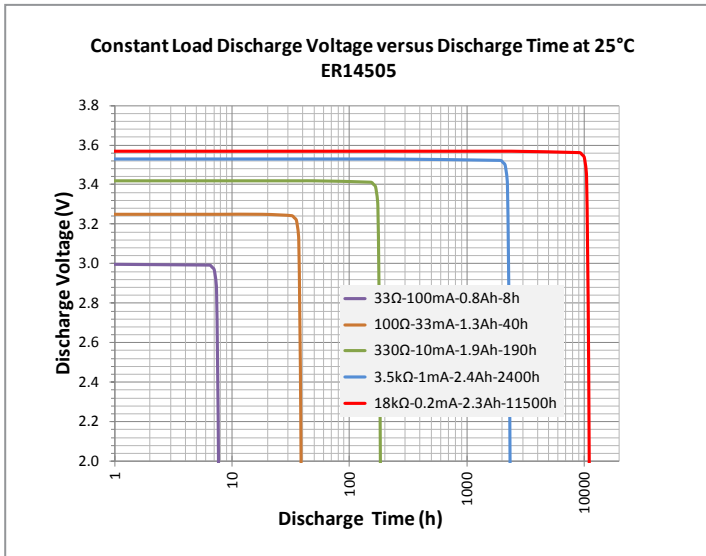
Notes

1. Order by suffix, (-S) available in standard bulk as shown. Contact Ultralife for other terminal options.
2. Cells should be stored in temperatures less than 30°C for a shelf-life of greater than five years.
3. A complete description of transportation regulations, lithium weights and transportation classifications is available on the Ultralife website.

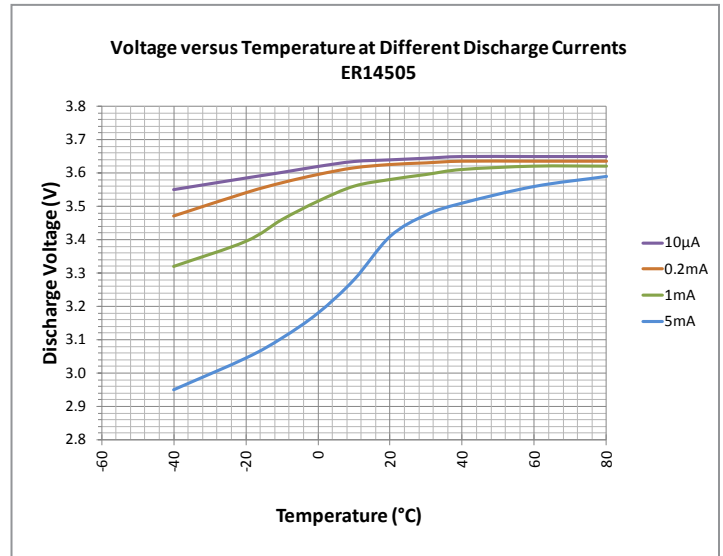
Dimensions



Typical Performance Graphs



High and flat voltage at high and low drain



High voltage at high drain even at -30°C

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[UHE-ER14505-S](#)