

UHE-ER14505-X: AA size bobbin cell construction

Technical Datasheet



Specifications	
Part Number	UHE-ER14505-X
Equivalent Models	LSX14500/LST14500/LS14500C/TL5903/SB-AA11
Voltage CCV	3.4 to 3.0 V depending on mA load
Open circuit voltage	3.65 V
Nominal Capacity at 1 mA	2400 mAh to 2.0 V @ 23° C
Capacity Range	1400 – 2000 mAh 0 – 60 °C
Max. Constant Discharge Current	48 mA
Pulse Capability	Up to 200 mA. Varies according to pulse characteristics, temperature, cell history and the application. Consult Ultralife for exact performance under your pulse load.
Operating Temp Range continuous Discharge	-55 °C to 85 °C. Operation at extreme ranges (temperature or current) may lead to reduced capacity and lower voltage readings at beginning of pulses. Consult with Ultralife for your application.
Storage Temp	30° C MAX. Store at ≤ 20 °C to minimize passivation and self-discharge
Exterior/Housing	304 stainless steel
Terminals/Connector available	Button Cap, Radial tabs, radial pins, axial leads, flying leads, wire. Custom termination available.
Safety	UN38.3/ UL1642
Transportation	Excepted from Regulations – see note 1
Mass	18 g
Lithium Metal Content	0.66 g
Case Expansion at Temperature	-55 °C to 85 °C 0.0 mm case expansion. 85° C for 100% of discharge. 1.3 mm length max case expansion.
Quality Assurance	Ultralife manufacturing facilities are ISO 9001:2015, ISO 14001:2015 and ISO13485:2016 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.

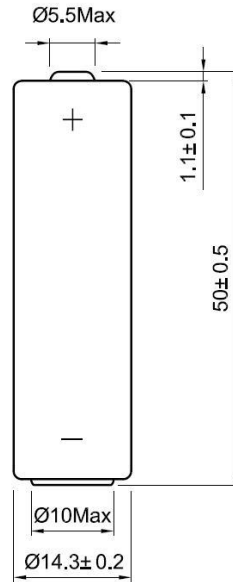
Features

- High and stable operating voltage
- Superior current capability
- Low self-discharge rate (less than 2% after 1 year of storage at 23°C)
- Hermetic glass-to-metal seal
- Non-flammable Non-Heavy metal electrolyte
- Laser welded can seal

Applications

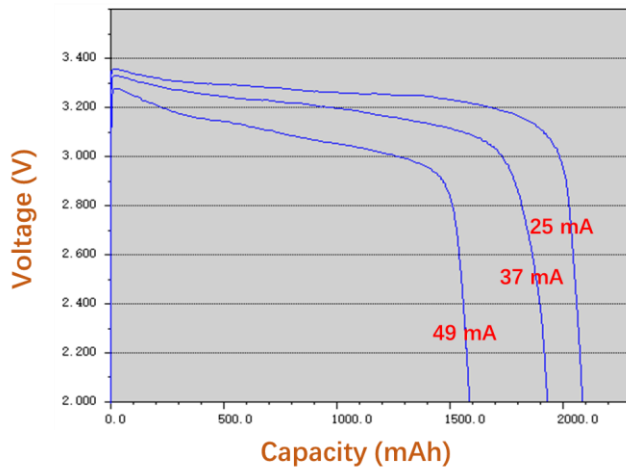
- Utility metering
- Autometer readers
- Measuring equipment
- Industrial applications
- Professional electronics
- Buoys
- Sensors
- Others

Dimensions

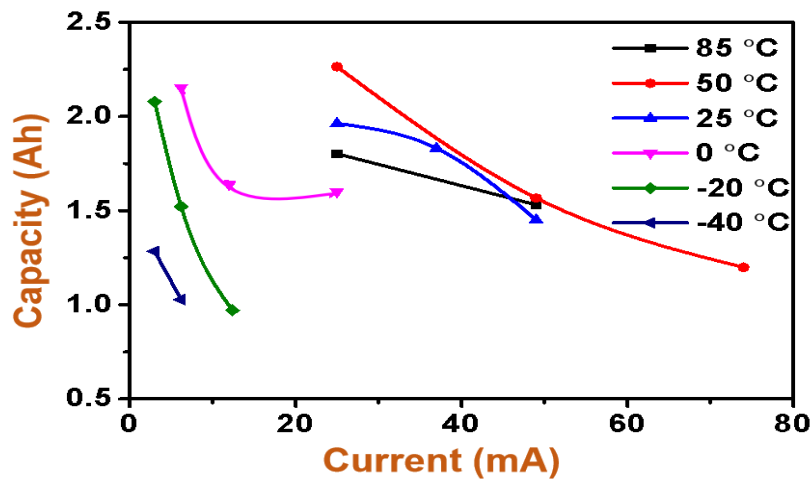
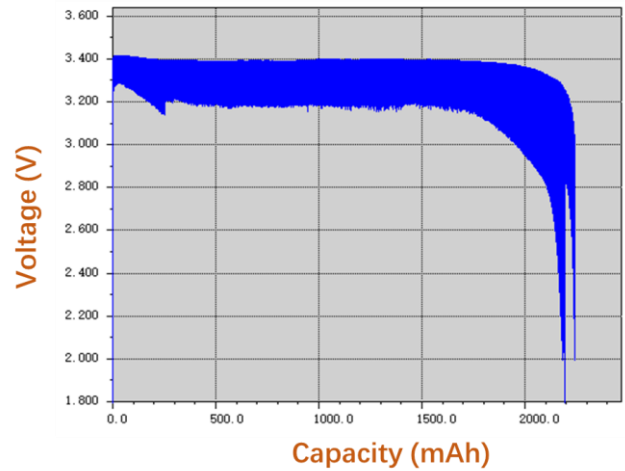


Typical Performance Graphs

RT Capacity test at different rates



Pulse 59.0 s 12 mA 1.0 s 60 mA at 25 °C to 2.0 V



UHE-ER14505-X

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