



UHR-ER18505-X: A size spiral cell (High Rate)

Technical Datasheet



Technical Specifications	
Part No.	UHR-ER18505-X
Cell Type	Primary, non-rechargeable
Chemistry	Lithium thionyl chloride
Closed Circuit Voltage Range	2.0 to 3.7V
Open Circuit Voltage	3.65V
Nominal Capacity	3.0Ah @ 1mA to 2.0 V @ 23° C
Max. Continuous Discharge Current	400mA
Max. Pulse Discharge Current, 1 second max	Up to 800mA (temperature and pulse dependent)
Weight	35g
Operating Temperature	-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
Storage Temperature	Max 30°C Store at ≤ 20 °C to minimize passivation and self-discharge
Exterior/Housing	Stainless steel
Terminals/Connector	Radial tabs/ radial pins/axial leads/flying leads/ Stainless steel end caps with other terminals.
Safety	UN38.3/ UL1642 (technician replaceable)
Transportation	Class 9
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.

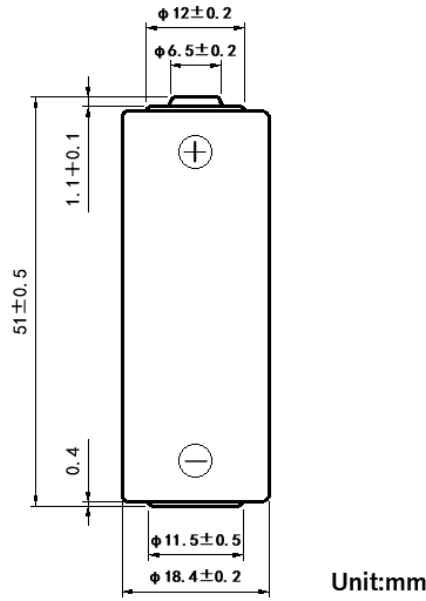
Features

- High and stable operating voltage
- Superior drain capability
- Low self-discharge rate
(less than 2% after 1year of storage at 23°C)
- Hermetic glass-to-metal sealing
- Finished product with PTC for safety
- Non-flammable electrolyte

Typical Applications

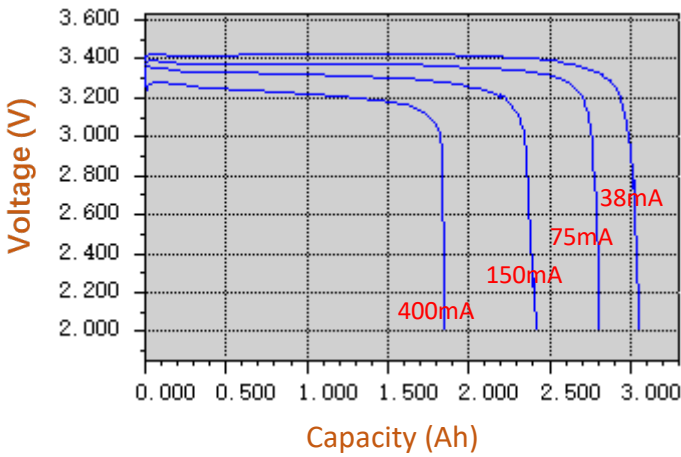
- Radio communication and other military applications
- Alarms and security systems
- Transmitters
- GPS
- LED lighting applications
- Others

Dimensions



Typical Performance Graphs

RT Capacity test at different rates



Pulse 59s 30mA 1s 400mA at 25°C to 2.0V

