

# UHR-ER18505-X: A size spiral cell (Generation X)

## Technical Datasheet



Technical Specifications	
Part No	UHR-ER18505-X
Model No	ER18505M-X
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Thionyl Chloride
Voltage CCV	2.0 to 3.7V depending on mA load and temperature
Open Circuit Voltage	3.65V
Nominal Capacity at 1mA	3.0Ah to 2.0V @ +23°C
Capacity Range	1.8-3.0Ah 0–60°C temperature and rate dependent
Max. Constant Discharge Current	400mA
Pulse Capability <sup>1</sup>	Up to 800mA, 1.0 second pulse
Energy Rating	10.95Wh
Gravimetric Energy Density	313Wh/kg
Weight	35g
Operating Temperature <sup>2</sup>	-55°C to +85°C <sup>3</sup>
Storage Temperature	+30°C max., 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	UL 1642 UN 38.3 (transportation) (technician replaceable)
Transportation	Excepted Dangerous Goods UN 3091: Packed with or contained in equipment Air Shipment: Packing Instruction 969 and 970, Section I Class 9 Dangerous Goods UN 3090: Bulk shipment Air shipment: Packing Instruction 968, Section IB
Quality Assurance	Ultralife manufacturing facilities are ISO 9001:2015 and ISO 13485:2016 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 1 year of storage at +23°C)
- Hermetic glass-to-metal seal
- Non-flammable electrolyte
- Finished product with PTC for safety
- Laser welded can seal

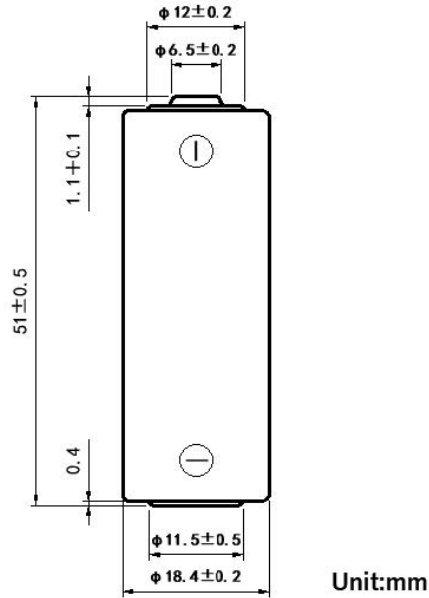
### Applications

- Utility metering
- Radio communication and other military applications
- Alarms and security systems
- Transmitters
- GPS
- LED lighting applications
- Pulse discharge
- Sensors

### Note(s)

1. Varies according to pulse characteristics, temperature, cell history and the application. Consult Ultralife for exact performance under your pulse load.
2. 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.
3. Exceeding the maximum temperature rating of +85°C may cause cell leaks, excessive expansion of case hardware, and / or decomposition of case shrink wrap.

# Dimensions



# Performance Graphs

