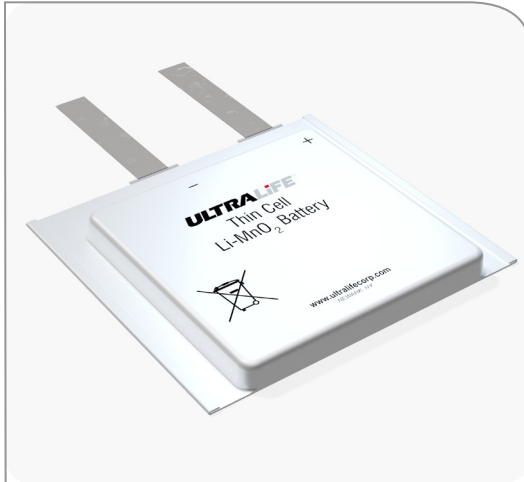


# CP403838: Thin Cell

## Technical Datasheet



### Technical Specifications

|  |   |        |
|--|---|--------|
| <b>Part No</b>                         | CP403838 (previously known as U10004)   |        |
| <b>Cell Type</b>                       | Primary, non-rechargeable   |        |
| <b>Chemistry</b>                       | Lithium Manganese Dioxide   |        |
| <b>Voltage Range</b>                   | 1.5V to 3.3V  |        |
| <b>Nominal Voltage</b>                 | 3.0V  |        |
| <b>Typical Capacity<sup>1</sup></b>    | 1600mAh   |        |
| <b>Max. Continuous Discharge</b>       | 125mA   |        |
| <b>Max. Pulse Discharge</b>            | Up to 250mA (life and temperature dependent)  |        |
| <b>Energy Rating</b>                   | 4800mWh   |        |
| <b>Energy Density</b>                  |   |        |
| <b>Gravimetric</b>                     | 320Wh/kg  |        |
| <b>Volumetric</b>                      | 1294Wh/L  |        |
| <b>Weight</b>                          | 15.0g   |        |
| <b>Operating Temperature</b>           | -20°C to +60°C  |        |
| <b>Storage Temperature<sup>2</sup></b> | -40°C to +60°C  |        |
| <b>Exterior/Housing</b>                | Laminated aluminium foil  |        |
| <b>Terminals/Connector</b>             | Ni-stainless steel tabs (Ni-Ni optional)  |        |
| <b>Size (maximums)</b>                 | Length:   | 44.5mm |
|  | Width:  | 48.0mm |
|  | Height:   | 4.4mm  |
| <b>Certifications</b>                  | UL 1642<br>UN 38.3  |        |
| <b>Safety</b>                          | AL/MSDS-RD-004  |        |
| <b>Transportation<sup>3</sup></b>      | Dangerous Goods Class 9: Miscellaneous<br>UN3090<br>Air shipment: Packing Instruction 968, Section IB   |        |
| <b>Quality Assurance</b>               | 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

- Flat discharge curve
- High power and higher energy for the whole battery life
- Long shelf life
- Low self-discharge rate (less than 2% after 1 year of storage at +20°C)
- High energy density
- Wide operating temperature range
- Lightweight

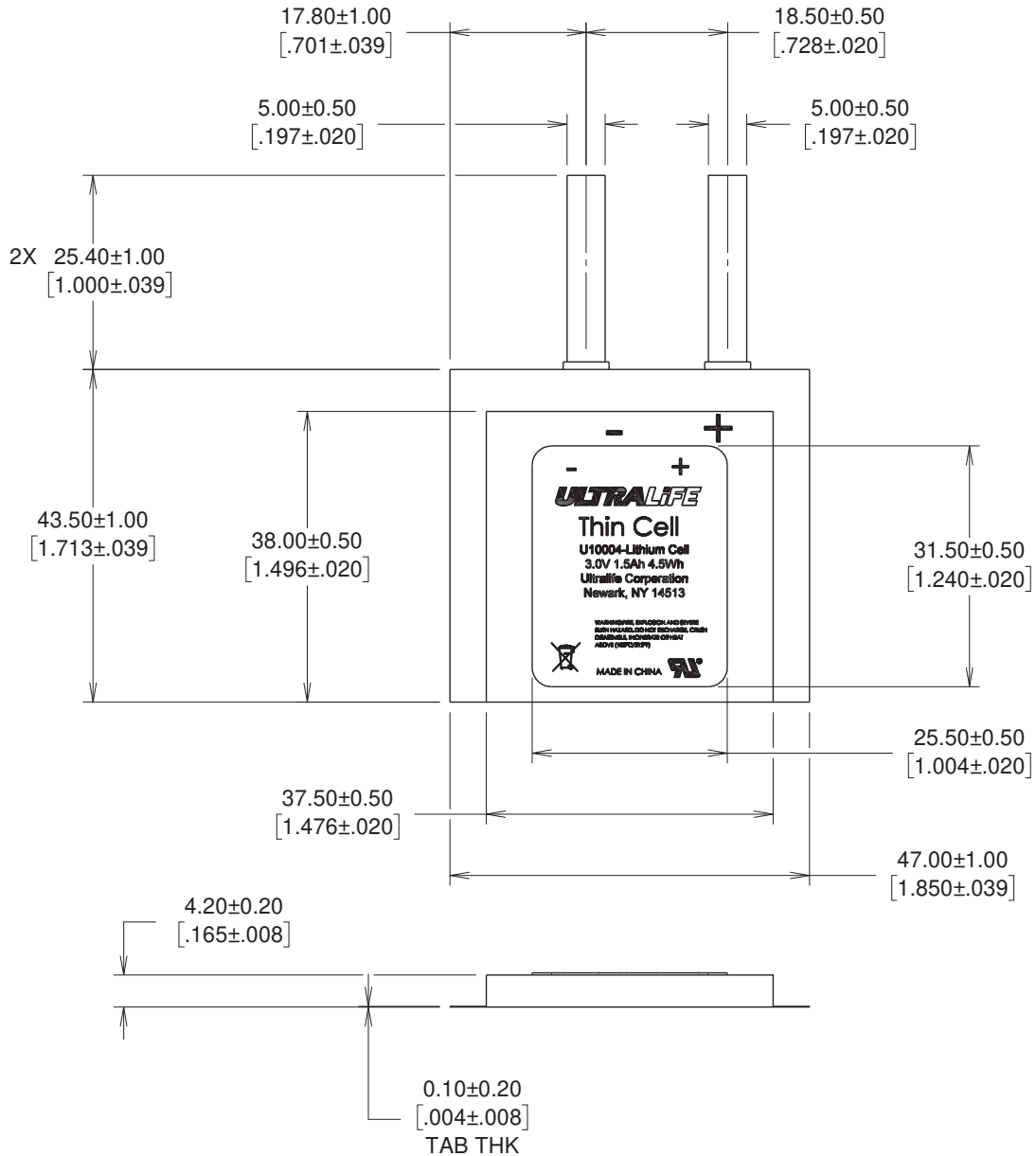
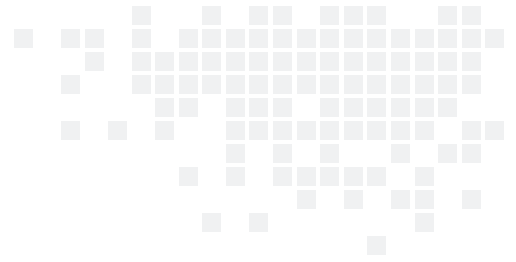
### Applications

- “Smart” security cards
- Asset tracking tags
- Toll pass tags
- Bank theft tracking systems
- Electronics record tracking systems
- Medical devices
- RFID

### Notes

1. Discharged using 10mA to 1.5V @ +23°C.
2. For a >5 years life, storage should not exceed +30°C.
3. For shipments by air that are no more than 8 cells and 1 package, this cell is Excepted Dangerous Goods and can be shipped under Packing Instruction 968, Section II.

# Dimensions



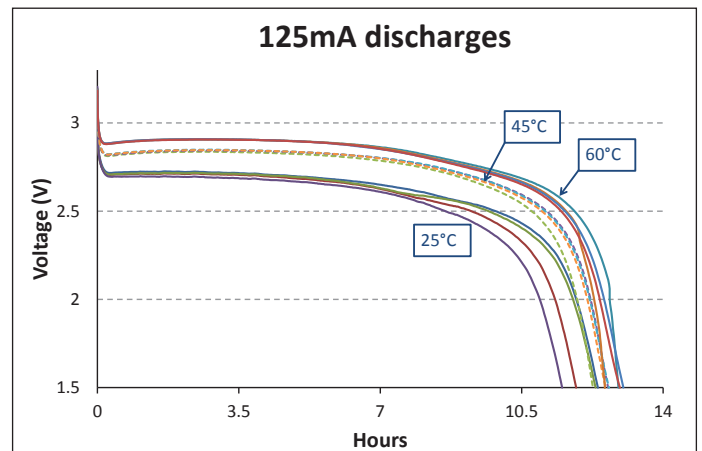
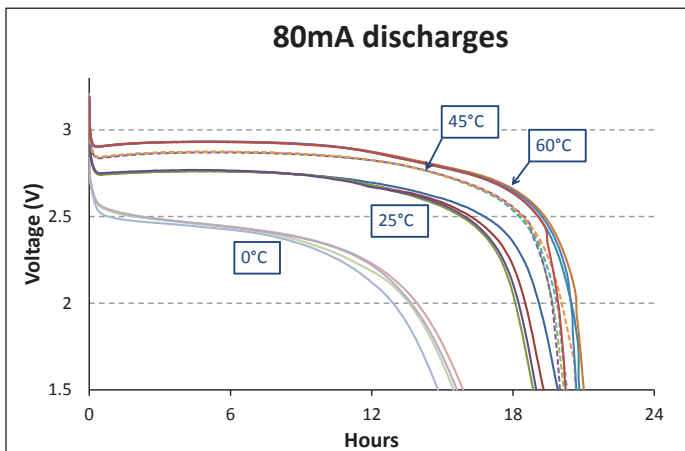
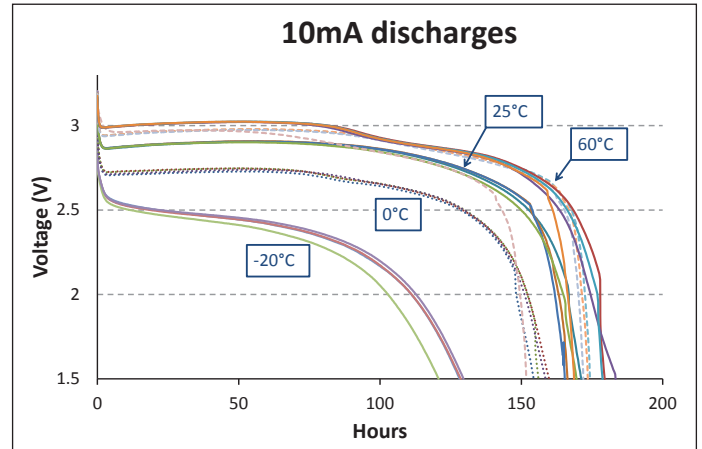
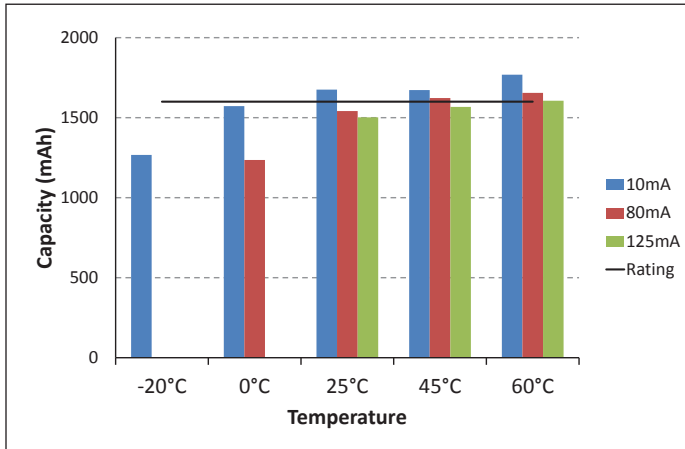
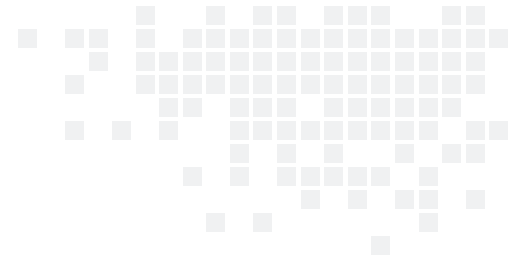
CP403838

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# Performance Graphs



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