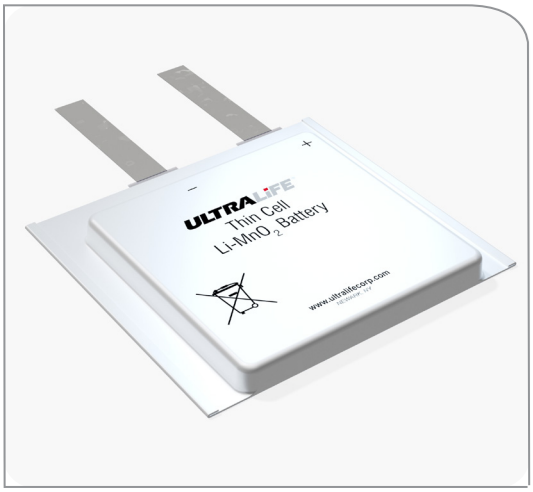
ULTRALIFE
BATTERY & ENERGY PRODUCTS

CP403838: Thin Cell®

Technical Datasheet



Features

- Flat discharge curve
- High power and higher energy for the whole battery life
- Shelf life > 10 years
- Low self-discharge rate (less than 1% 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

Technical Specifications	
Part No	CP403838 (previously known as U10004)
Cell Type	Primary, non-rechargeable
Chemistry	Lithium Manganese Dioxide
Voltage Range	1.5V to 3.3V
Nominal Voltage	3.0V
Typical Capacity	1500mAh to 1.5V @ +23°C
Max. Continuous Discharge	125mA
Max. Pulse Discharge[1]	Up to 250mA (life and temperature dependent)
Energy Rating	4500mWh
Energy Density **Gravimetric** **Volumetric**	 346Wh/kg 1294Wh/l
Weight	13.0g
Lithium Metal Content	0.45g
Operating Temperature	-20°C to +60°C
Storage Temperature[2]	-40°C to +60°C
Exterior/Housing	Laminated aluminium foil
Terminals/Connector	Ni-stainless steel tabs (Ni-Ni optional)
Size (maximums)	Length: 48.0mm Width: 44.5mm Height: 4.4mm
Certifications	UL 1642 UN 38.3
Safety	AL/MSDS-RD-004
Transportation	UN 3090 Dangerous Goods Class 9, Lithium Content >0.3g, <1.0g If packed in or with equipment (UN 3091), contact Ultralife for guidance or other questions. UN Testing Summary- RZUN2018-3672-TS U10004
Quality Assurance	Ultralife manufacturing facilities are ISO 9001 and ISO 13485 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.

Notes

1. Varies according to pulse characteristics, temperature, cell history and the application. Consult with Ultralife.
2. For a >5 years life, storage should not exceed +30°C.

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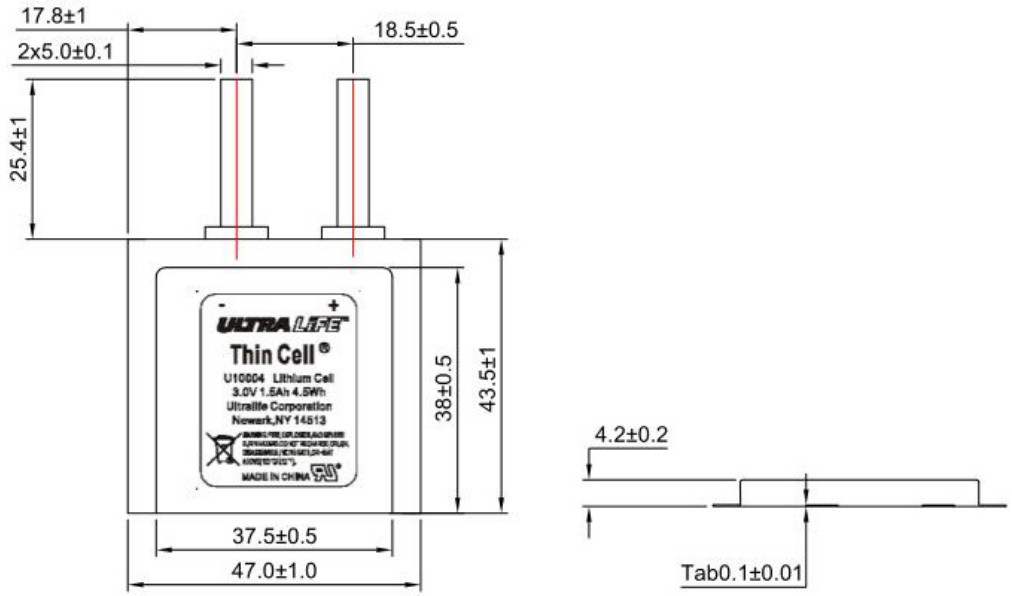
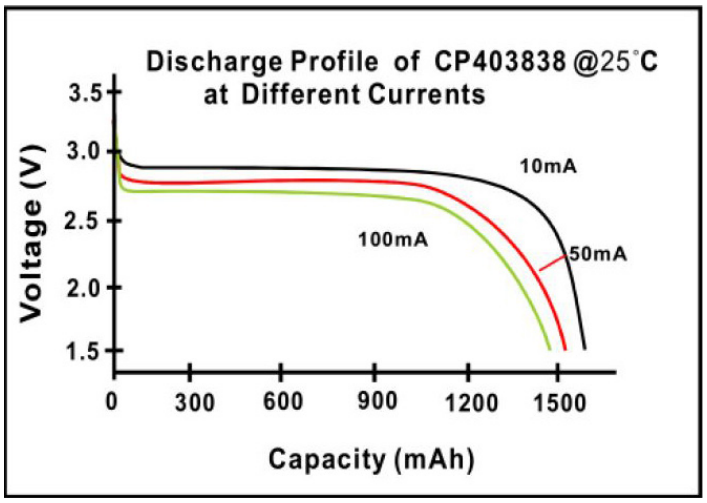
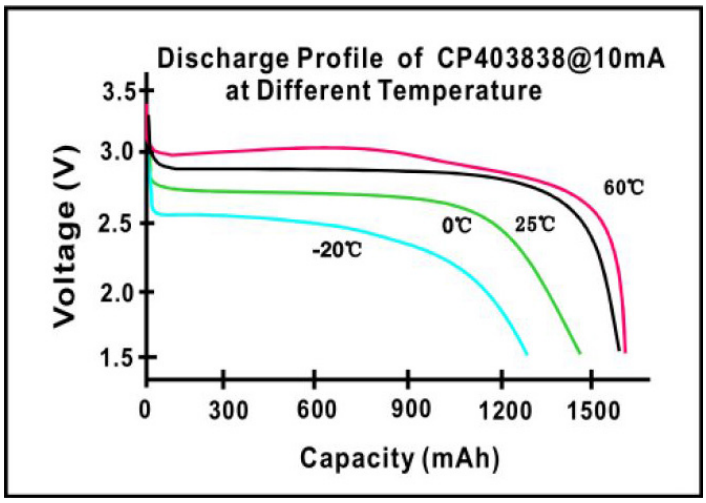
Dimensions



Unit: mm

Performance Graphs





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