

Primary Lithium Battery

CR17450

3.0V [Li-MnO₂]

4/5A-size Spiral Cell



BENEFITS

- High Voltage Response, Stable During Most of the Lifetime of the Application
- Energy Density up to 830Wh/L
- Wide Operating Temperature Range (-40°C~+85°C)
- Low Self-discharge Rate (less than 1% per year after 1 year of storage at +25°C)

KEY FEATURES

- Optimized Battery Structure, Full Discharge Capacity
- Long Endurance
- No Passivation
- UL1642, UN38.3 Certified

MAIN APPLICATIONS

- Security System
- Smart Metering
- RFID and Tracking System
- Wireless Transmitting
- Smart Home Devices
- Military Devices

Reference Data

Electrical characteristics

Nominal voltage	3.0V
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Nominal capacity	2200mAh
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(At +25°C, battery discharged at continuous current 5mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

Maximum continuous current	1500mA
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(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity.)

Maximum pulse discharge current	3000mA
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(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of rated capacity with max pulse for 3 seconds after 27 seconds break. Discharge capacity of the battery will change with the pulse characteristics and ambient temperature as well as storage situation.)

Storage temperature (recommended)	≤30°C
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Storage humidity (recommended)	≤75%RH
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Operating temperature range	-40°C~+85°C
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(Operation above ambient temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses, consult HCB.)



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Physical characteristics

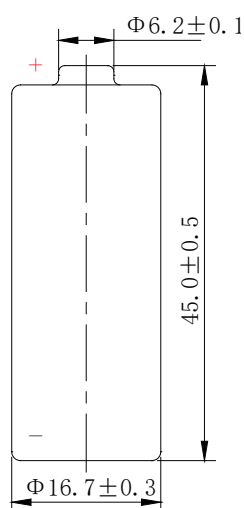
Diameter	16.7±0.3mm
Height	45.0±0.5mm
Typical weight	26.0g
Li metal content	0.63g

MSDS as per request

Diode (1N4007, 1N5819)

PTC (SR5175...)

Tag, wire, connector, etc. available



Dimensions in mm (GB1804-m)

WARNING:

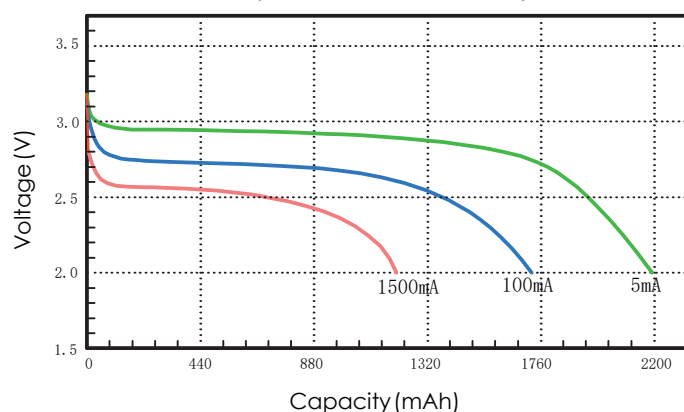
- Do Not Short Circuit
- Do Not Recharge
- Do Not Puncture
- Do Not Crush
- Do Not Dismantle
- Do Not Incinerate
- Do Not Mix New and Used Batteries
- Do Not Heat Above 100°C

This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact HCB for the latest information.

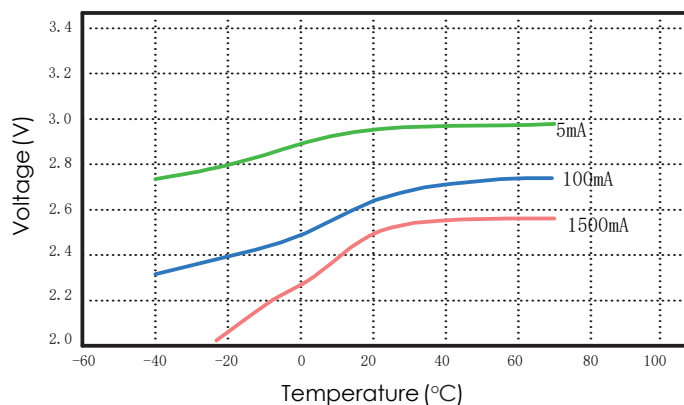
HCB BATTERY CO., LTD

Add: 37 Tianyuan Street, Dongxihu District, Wuhan, Hubei, China

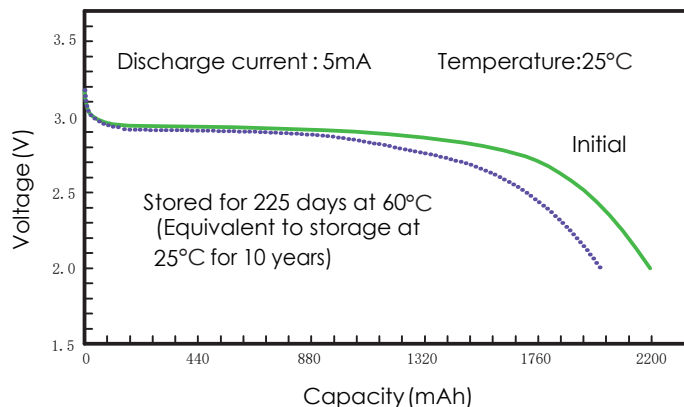
1. Typical discharge profiles at 25°C
(median of capacity)



2. Voltage plateau versus Current and Temperature
(at discharge stable phase)



3. Storage characteristics



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