

# Primary Lithium Battery

## CP403054

3.0V [Li-MnO<sub>2</sub>]

### 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 ~+70°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
- GB 8897.4-2008、IEC 60086.4:2014 and RoHS

### MAIN APPLICATIONS

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

### References Data

#### Electrical characteristics

Open circuit voltage (at 25°C) 3.10V

Nominal capacity 1500mAh

(At +25°C, battery discharged at continuous current 1mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

Maximum continuous current 600mA

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

Maximum pulse discharge current 800mA

(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. For more detail, please inquiry HCB.)

Storage (recommended) +30°C

(For more severe conditions, consult HCB) 75%RH

Operating temperature range -40°C~+70°C

(Operation above ambient temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses, consult HCB.)

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3.0V [Li-MnO<sub>2</sub>]



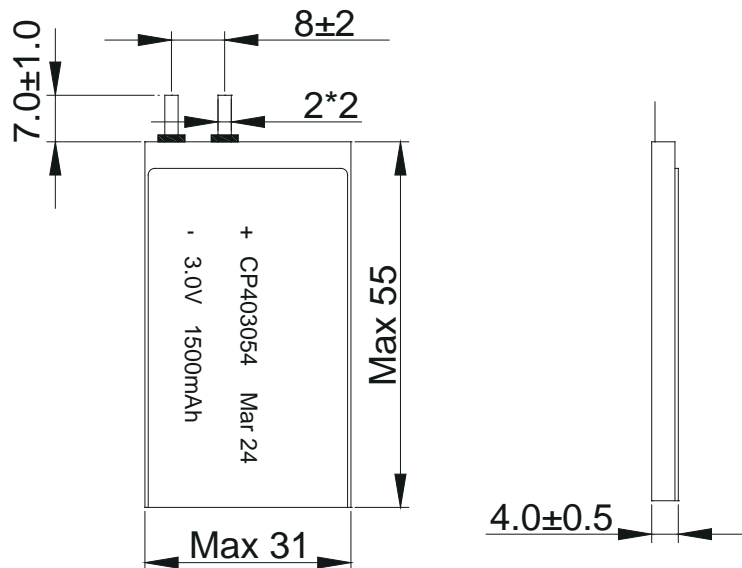
**HCB**  
昊诚锂电

## Physical characteristics

Width	Max 31.0mm
Height	Max 55.0mm
Thickness	4.0±0.5mm
Typical weight	11.2g
Li metal content	0.43g

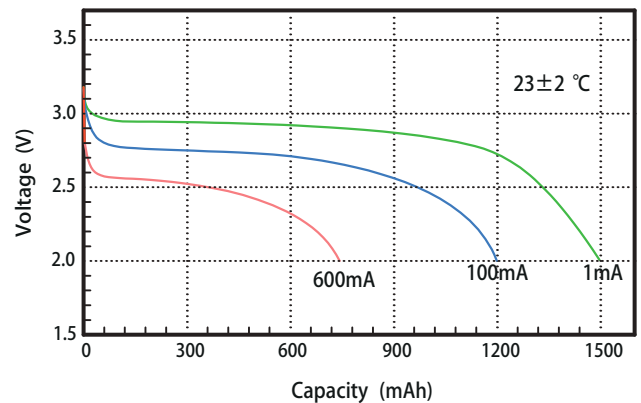
MSDS as per request  
Diode (1N4007, 1N5819)  
PTC (SRS175...)

Tag, wire, connector, etc. available



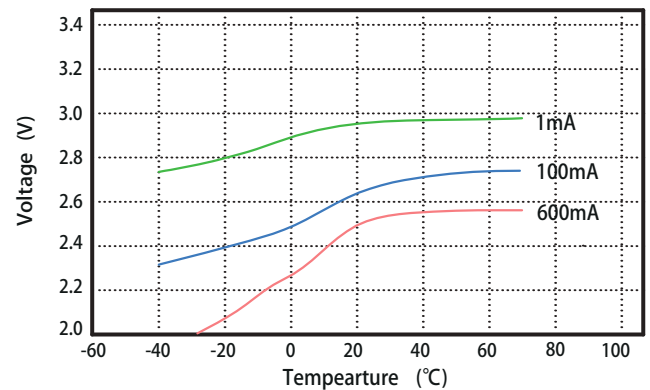
Dimensions in mm (GB1804-m)

1. Typical discharge profiles at 25°C  
(at mid-discharge)



Capacity (mAh)

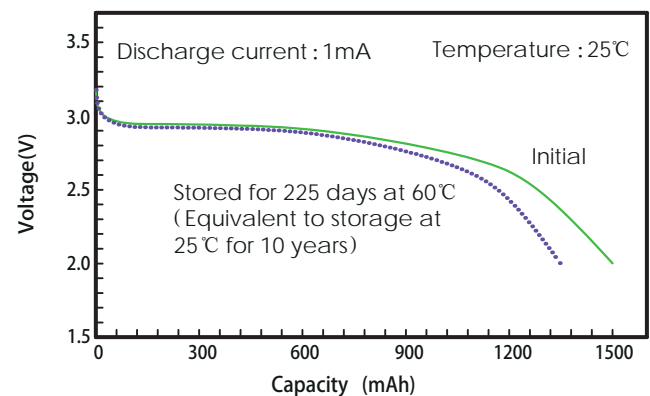
2. Voltage plateau versus Current and Temperature  
(at discharge stable phase)



Voltage (V)

Temperature (°C)

3. Storage characteristics



Voltage (V)

Capacity (mAh)

## 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

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