

Primary Lithium Battery

CP2012120

3.0V [Li-MnO₂]



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 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 **480mAh**

(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 **50mA**

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

Maximum pulse discharge current **80mA**

(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. The discharged capacity may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions, consult 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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No.: HCB-MKT.PM-S[V2.0 2018 02]

Primary Lithium Battery

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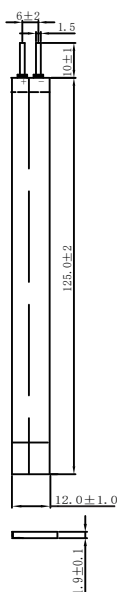
3.0V [Li-MnO₂]

Physical characteristics

Width	12.0±1.0mm
Height	125.0±2.0mm
Thickness	1.9±0.1mm
Typical weight	5.0g
Li metal content	0.19g

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

Tag, wire, connector, etc. available

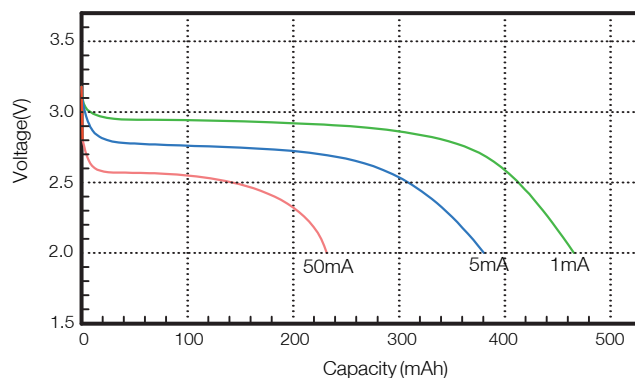


Dimensions in mm (GB1804-m)

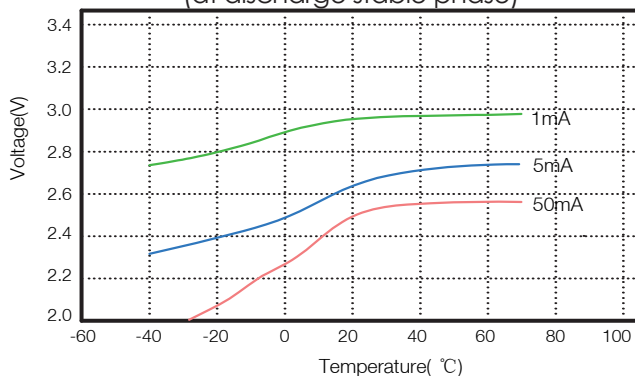
WARNING:

- 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

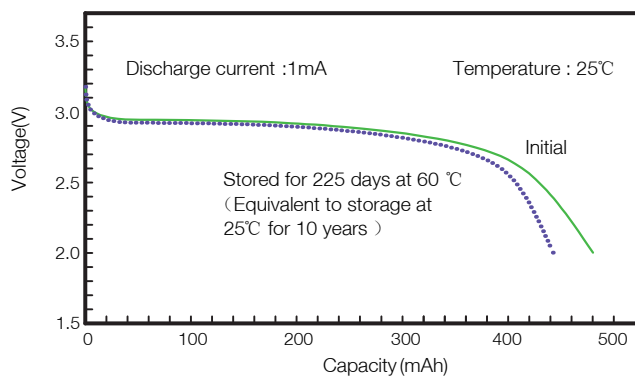
1. Typical discharge profiles at 25°C
(at mid-discharge)



2. Typical discharge profiles with different current
(at discharge stable phase)



3. Storage characteristics



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