

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 CP2012120

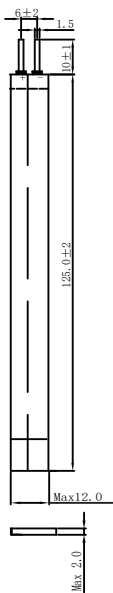
3.0V [Li-MnO₂]

Physical characteristics

Width (max)	12.0mm
Height (max)	125.0mm
Thickness (max)	2.0mm
Typical weight	5.0g
Li metal content	0.19g

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

Tag, wire, connector, etc. available

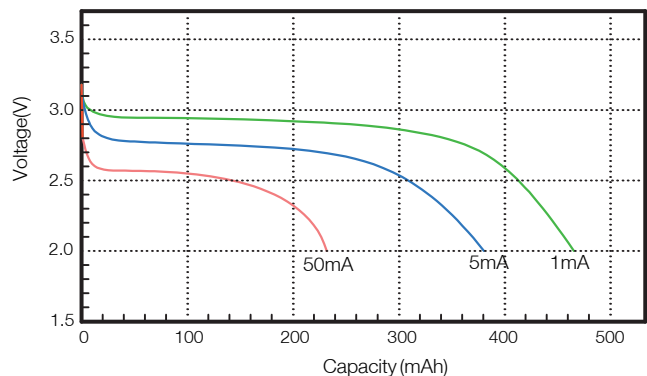


Dimensions in mm (GB1804-m)

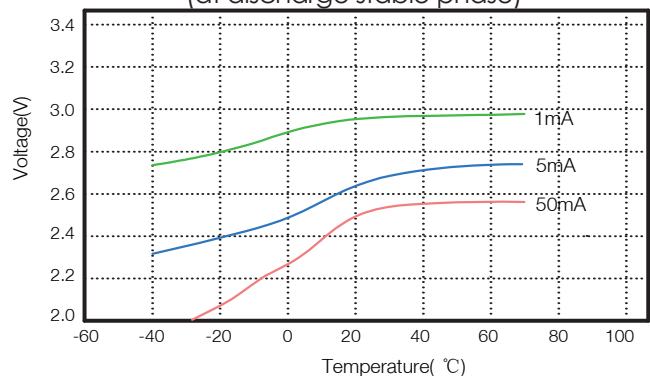
WARNING:

- 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

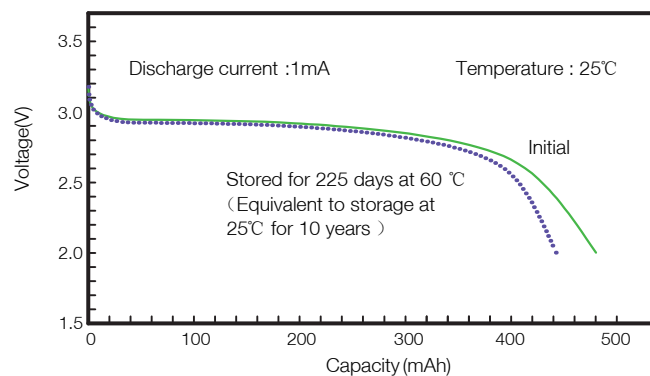
1. Typical discharge profiles at 25°C
(at mid-discharge)



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



3. Storage characteristics



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