

Primary Lithium Battery

ER18505

3.6V Lithium-thionyl chloride[Li-SOCl₂]
Fat A-size bobbin cell



Benefits

- High and Stable Voltage
- Energy Density up to 590Wh/kg
- Long Shelf Life (less than 1% per year after 1 year of storage at +25°C)
- Wide Operating Temperature (-55°C~+85°C)

Key Features

- Stainless Steel Container
- Glass to Metal Hermetic Sealing
- Non-flammable Electrolyte
- CE, UL(MH10060) and UN38.3 Certified

Main Applications

- Security System
- Smart Metering
- RFID / IoT System
- Wireless Transmitting
- Smart Home Devices
- Military Devices

New cell:*

Refer to the cells that are stored within two months at no higher than +25°C.

Electrical Characteristics

Open circuit voltage (at 25°C) **≥3.65V**

Nominal capacity **4000mAh**

(At +25°C, battery discharged at continuous current 2mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

Maximum continuous current **130mA**

(New cell*, at +25°C, 2.0V cut-off, battery discharged for minimum 50% of nominal capacity.)

Maximum pulse discharge current **200mA**

(200 mA/0.1 second pulses, drained every 2 minutes at +25°C from undischarged the new cell with 10 uA base current, yield voltage reading above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the's previous history. Fitting the cell with a capacitor may be recommended in severe conditions, consult HCB.)

Storage (recommended) **≤30°C**
≤75%RH

(For more severe conditions, consult HCB)

Operating temperature range **-55°C~+85°C**

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

HCB BATTERY CO., LTD

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No.: HCB-MKT.PM-S[V1.0 2017 02]

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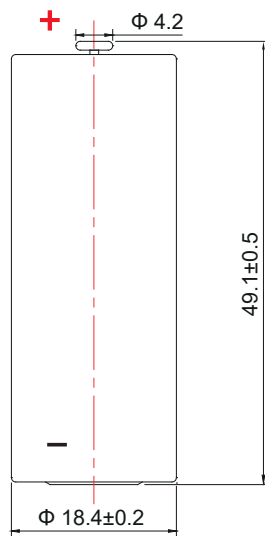


3.6V Lithium-thionyl chloride[Li-SOCl₂]
Fat A-size bobbin cell

Physical Characteristics

Diameter	18.4±0.2mm
Height	49.1±0.5mm
Typical weight	31.0g
Lithium metal content	1.15g

MSDS as per request
Diode (1N4007, 1N5819)
PTC (SRS175...)
Tag, wire, connector, etc. available

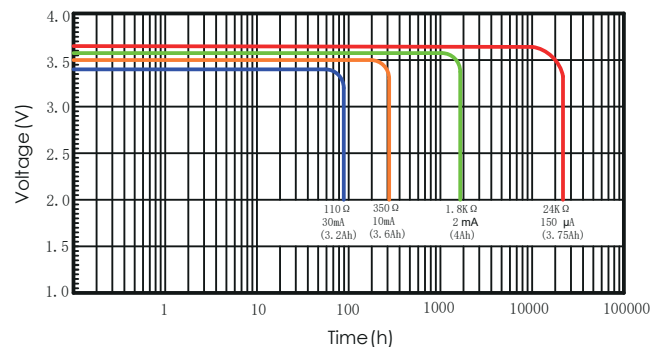


Dimensions in mm

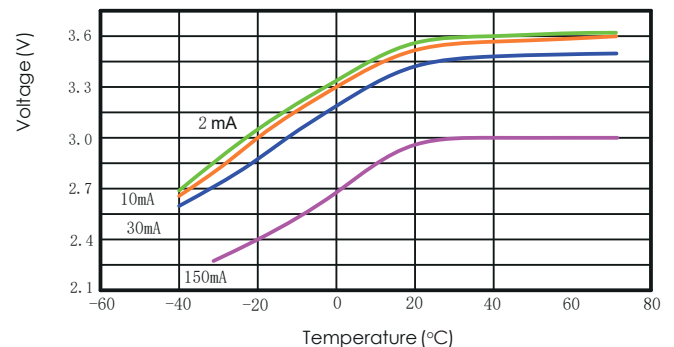
WARNING:

- 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

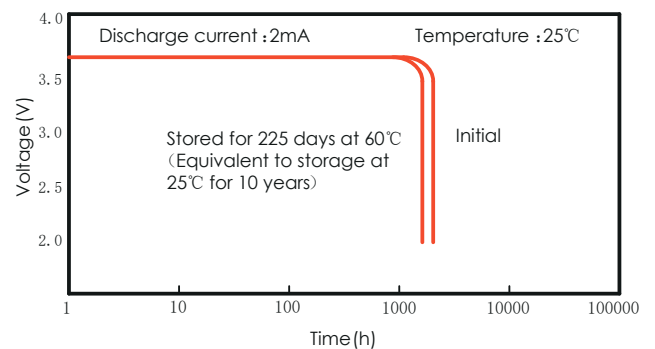
1. Typical discharge profiles at 25°C
(at the mid-discharge)



2. Voltage plateau versus Current and Temperature
(at the mid-discharge)



3. Storage characteristics



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