



Primary Lithium Battery

ER14505M

3.6V Lithium-thionyl chloride[Li-SOCl₂]
AA-size Spiral cell



Benefits

- High and Stable Voltage
- Energy Density up to 907Wh/L
- Long Shelf Life (less than 1% per year after 1 year of storage at +25℃)
- Wide Operating Temperature (-55℃~+85℃)

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

Electrical Characteristics

Open circuit voltage (at 25℃)	≥3.65V
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Nominal capacity	2100mAh
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(At +25℃, battery discharged at continuous current 4mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

Maximum continuous current	400mA
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(At +25℃, 2.0V cut-off, battery discharged for minimum 50% of nominal capacity.)

Maximum pulse discharge current	800mA
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(At +25℃, 2.0V cut-off, battery discharged for minimum 50% of nominal 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℃ ≤75%RH
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(For more severe conditions, consult HCB)

Operating temperature range	-55℃~+85℃
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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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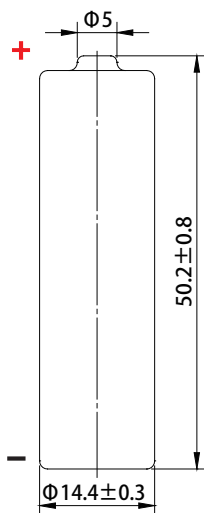
HCB
昊诚锂电

Physical Characteristics

Diameter	14.4±0.3mm
Height	50.2±0.8mm
Typical weight	22.0g
Lithium metal content	0.6574g

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

Tag, wire, connector, etc. available



Dimensions in mm

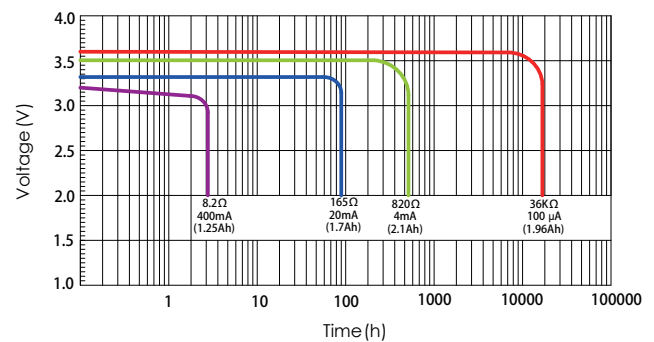
WARNING:

- 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

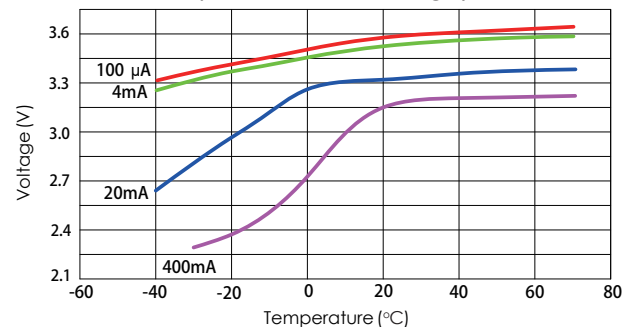
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Contact HCB for the latest information

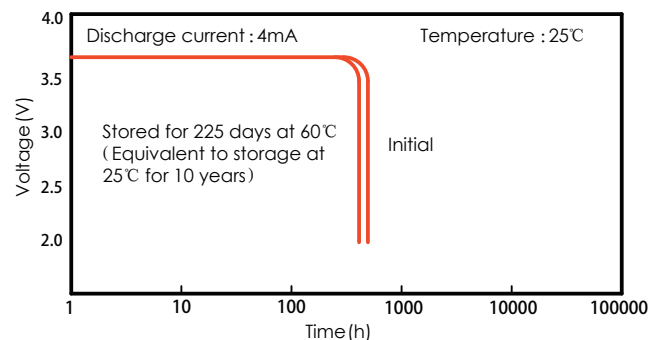
1. Typical discharge profiles at 25°C (at the mid-discharge)



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



3. Storage characteristics



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