



# Primary Lithium Battery

## ER17505

3.6V Lithium-thionyl chloride[Li-SOCl<sub>2</sub>]  
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℃)
- 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	3600mAh
(At +25℃, battery discharged at continuous current 2.0mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)	

Maximum continuous current	100mA
(At +25℃, 2.0V cut-off, battery discharged for minimum 50% of nominal capacity.)	

Maximum pulse discharge current	180mA
(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℃
(For more severe conditions, consult HCB)	≤75%RH

Operating temperature range	-55℃~+85℃
(Operation above ambient temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses, consult HCB.)	

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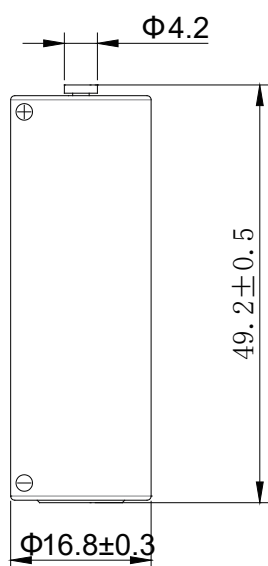
**HCB**  
昊诚锂电

### Physical Characteristics

Diameter	16.8±0.3mm
Height	49.2±0.5mm
Typical weight	25.0g
Lithium metal content	0.93g

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

Tag, wire, connector, etc. available



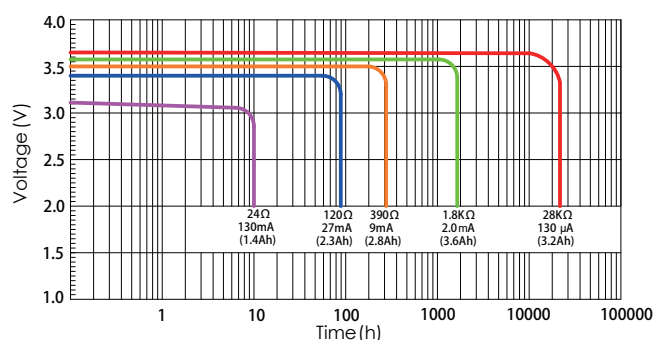
Dimensions in mm

### WARNING:

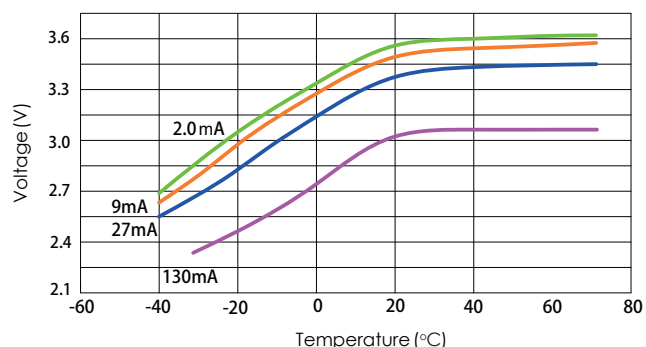
- Do not short circuit
- Do not dismantle
- Do not recharge
- Do not incinerate
- Do not puncture
- Do not mix new and used batteries
- Do not crush
- Do not heat above 100°C

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

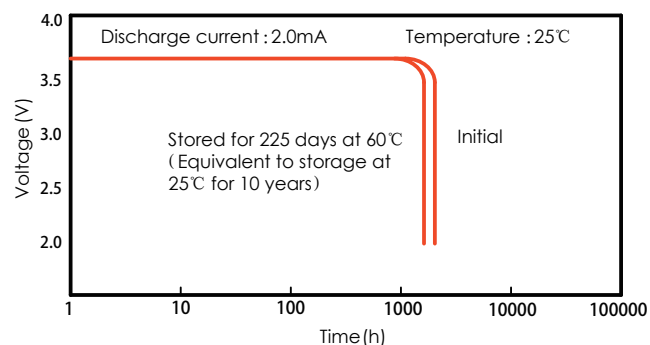
1. Typical discharge profiles at 25°C  
(at the mid-discharge)



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



3. Storage characteristics



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