

# 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°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

### Electrical Characteristics

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

**Nominal capacity** **3600mAh**

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

**Maximum pulse discharge current** **250mA**

(At +25°C, 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°C**  
(For more severe conditions, consult HCB) **≤75%RH**

**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]

# Primary Lithium Battery ER17505



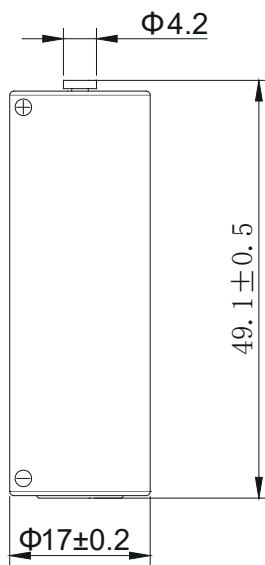
3.6V Lithium-thionyl chloride[Li-SOCl<sub>2</sub>]  
A-size bobbin cell

## Physical Characteristics

<b>Diameter</b>	<b>17.0±0.2mm</b>
<b>Height</b>	<b>49.1±0.5mm</b>
<b>Typical weight</b>	<b>25.0g</b>
<b>Lithium metal content</b>	<b>0.93g</b>

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

Tag, wire, connector, etc. available

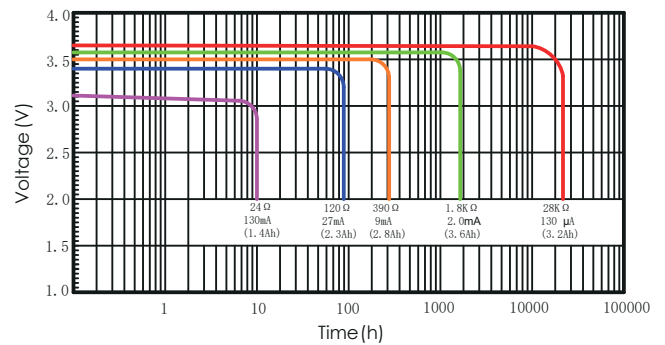


Dimensions in mm

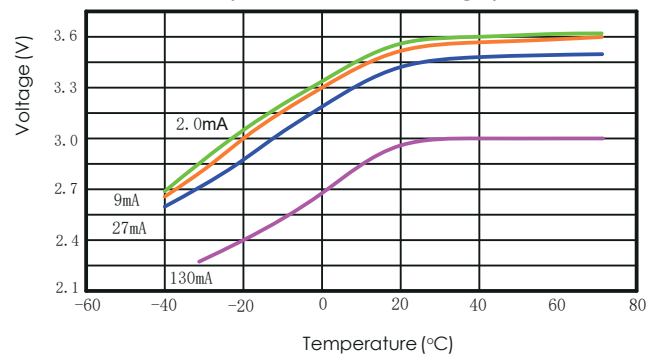
## WARNING:

- 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

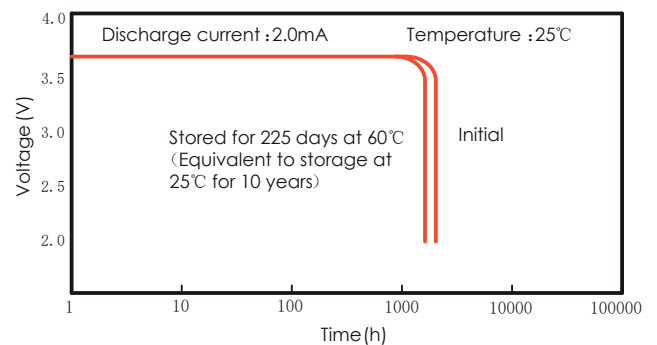
1. Typical discharge profiles at 25°C  
(at the mid-discharge)



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



3. Storage characteristics



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