

# Primary Lithium Battery

## ER14250

3.6V Lithium-thionyl chloride[Li-SOCl<sub>2</sub>]  
1/2AA-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 (-60°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

<b>Open circuit voltage (at 25°C)</b>	<b>≥3.65V</b>
<b>Nominal capacity</b>	<b>1200mAh</b>
(At +25°C, battery discharged at continuous current 0.65mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage. )	
<b>Maximum continuous current</b>	<b>40mA</b>
(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of nominal capacity. )	
<b>Maximum pulse discharge current</b>	<b>80mA</b>
(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.)	
<b>Storage (recommended)</b>	<b>≤+30°C</b>
(For more severe conditions, consult HCB)	<b>≤75%RH</b>
<b>Operating temperature range</b>	<b>-60°C~+85°C</b>
(Operation above ambient temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult HCB.)	

### HCB BATTERY CO., LTD

Add: Special No 1. Taizhong Avenue, Gaoqiao Industrial Park,  
Wujiashan Economic Development Zone, Wuhan, P.R.China

P.O.: 430040  
Tel: +86(0)27 83248452  
Fax: +86(0)27 83248455

Email: haocheng@cnhcb.com  
Web: www.cnhcb.com  
No.: HCB-MKT.PM-S[V1.0 2017 02]

# Primary Lithium Battery ER14250

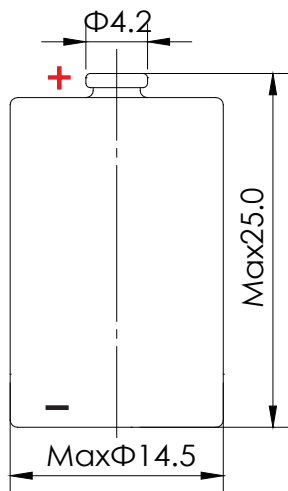


3.6V Lithium-thionyl chloride[Li-SOCl<sub>2</sub>]  
1/2AA-size bobbin 3.6V type

## Physical Characteristics

<b>Diameter (max)</b>	<b>14.5mm</b>
<b>Height(max)</b>	<b>25.0mm</b>
<b>Typical weight</b>	<b>10.0g</b>
<b>Lithium metal content</b>	<b>0.35g</b>

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

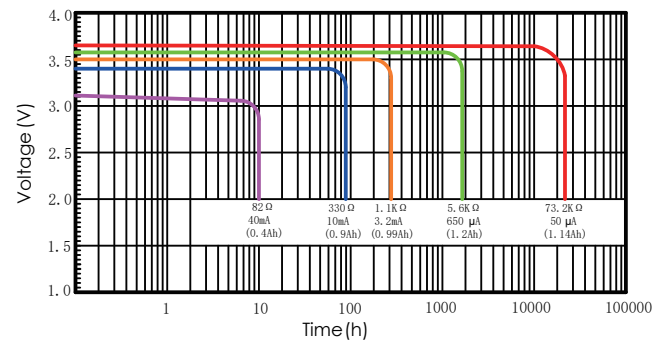


Dimensions in mm

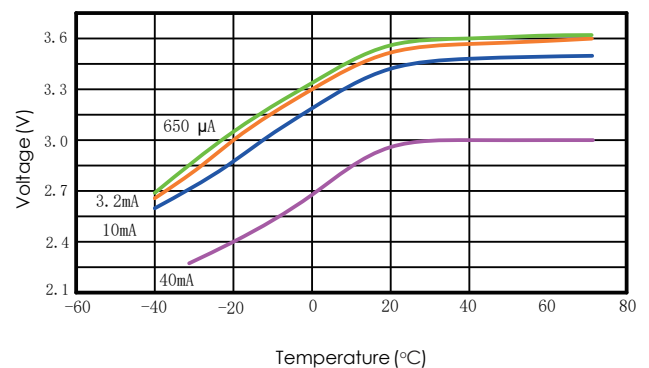
## WARNING:

- 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

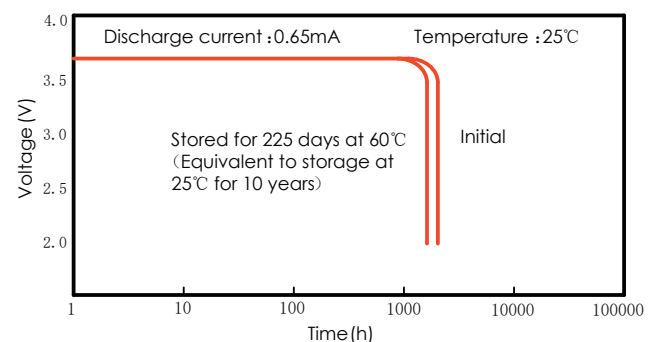
1. Typical discharge profiles at 25°C  
(at the mid-discharge)



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



3. Storage characteristics



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