We Power Your Technology

Primary Lithium Battery ER14505

3.6V Lithium-thionyl chloride[Li-$SOCl_2$]
AA-size bobbin cell



Benefits
- High and Stable Voltage
- Energy Density up to 590Wh/kg
- Low Self-discharge Rate (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
- UL(MH10060) and UN38.3 Certified

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

Electrical Characteristics

Nominal voltage	3.6V
Nominal capacity	2700mAh

(At +25°C, battery discharged at continuous current 1mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

Maximum continuous current	50mA

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

Maximum pulse discharge current	150mA

(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.)

Storage temperature (recommended)	≤30°C
Storage humidity ((recommended)	≤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.)

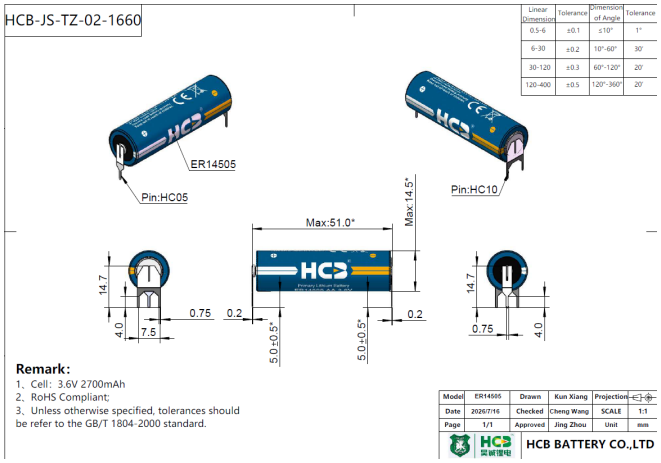
New cell:*
Refer to the cells that are stored within two months at no higher than +25°C.

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No.: HCB-MKT.PM-S[V2.2 2025 03]

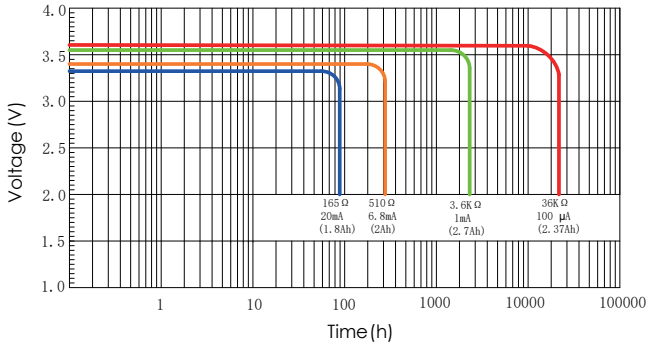
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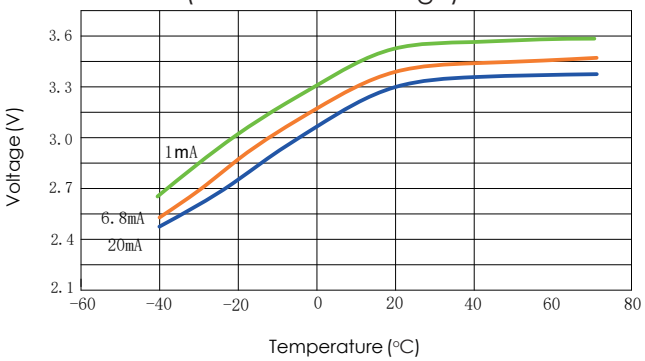
Physical Characteristics	
Diameter	14.2±0.3mm
Height	50.0±0.5mm
Weight	20.0g



1. Typical discharge profiles at 25°C (median of capacity)



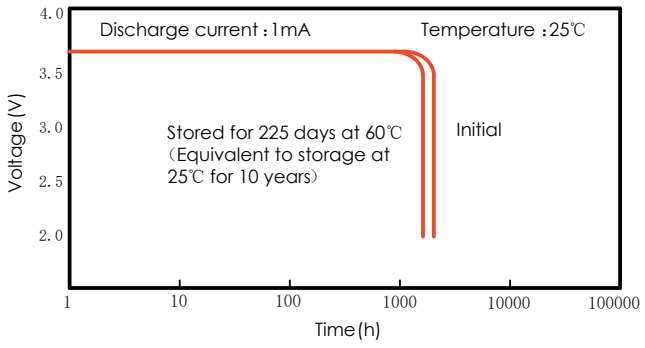
2. Voltage plateau versus Current and Temperature (at the mid-discharge)



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

3. Storage characteristics



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/specif -ications are subject to modification without notice.
Contact HCB for the latest information

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