Primary Lithium Battery ER18505

3.6V Lithium-thionyl chloride[Li-SOCl₂] Fat A-size bobbin cell

Bene ts

- 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- ammable Electrolyte
- CE, UL(MH10060) and UN38.3 Certi ed

Main Applications

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

New cell*:

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

HCB BATTERY CO., LTD

Add: 37 Tianyuan Street, Dongxihu District, Wuhan, Hubei, China

Electrical Characteristics

Open circuit voltage (at 25°C)

4000mAh

(At +25°C, battery discharged at continuous current 2mA until voltage reaches cut-o voltage 2.0V. The capacity can vary at di erent temperature, discharge current or cut-o voltage.)

Maximum continuous current

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

Maximum pulse discharge current

At +25°C, 2.0V cut-o , 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.)

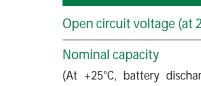
Storage (recommended)	30°C
(For more severe conditions, consult HCB)	75%RH

Operating temperature range

(Operation above ambient temperature may lead to reduced capacity and lower voltage readings at the beginning of pulses, consult HCB.)

PO: 430040 Tel: +86(0)27 83248452 Fax: +86(0)27 83248455

Email: haocheng@cnhcb.com Web: www.cnhcb.com No.: HCB-MKT.PM-S[V2.0 2023 05]







180mA

-55°C~+85°C

120mA

3.65V

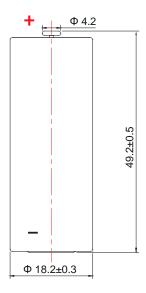
Primary Lithium Battery ER18505



3.6V Lithium-thionyl chloride[Li-SOCI₂] Fat A-size bobbin cell

Physical Characteristics	
Diameter	18.2±0.3mm
Height	49.2±0.5mm
Typical weight	31.0g
Lithium metal content	1.18g

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



Dimensions in mm

WARNING:

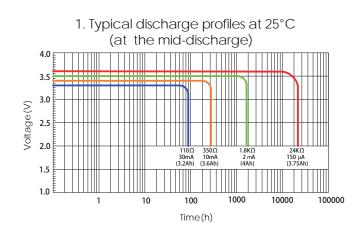
- Do not short circuit
- Do not rechargeDo not puncture
- Do not dismantleDo not incinerate
- Do not mix new and used batteries
- Do not crush
- Do not heat above 100°c

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/specif -ications are subject to modi cation withour notice. Contact HCB for the latest information

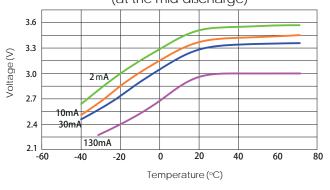
HCB BATTERY CO., LTD

Add: 37 Tianyuan Street, Dongxihu District, Wuhan, Hubei, China

P.O.: 430040 Tel: +86 (0) 27 83248452 Fax: +86 (0) 27 83248455 Email: haocheng@cnhcb.com Web: www.cnhcb.com Version No.: HCB-MKT. PM-S[V2.0 2023 05]



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



3. Storage characteristics

