We Power Your Technology

Primary Lithium Battery ER17505M

3.6V Lithium-thionyl chloride[Li-$SOCl_2$] A-size Spiral cell



Benefits

- High and Stable Voltage
- Energy Density up to 899Wh/L
- 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°C)	≥3.65V
Nominal capacity	2800mAh

(At +25°C, battery discharged at continuous current 5mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)

Maximum continuous current	500mA

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

Maximum pulse discharge current	1000mA

(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
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
No.: HCB-MKT.PM-S[V2.0 2023 05]

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ER17505M

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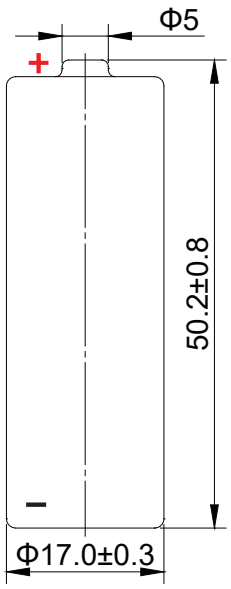
Physical Characteristics	
Diameter	17.0±0.3mm
Height	50.2±0.8mm
Typical weight	25.0g
Lithium metal content	0.93g

MSDS as per request

Diode (1N4007, 1N5819)

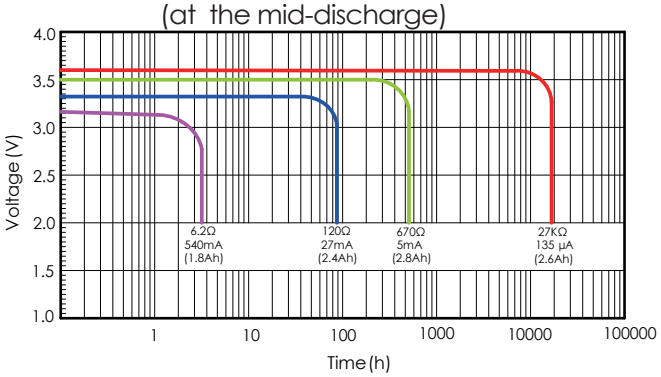
PTC (SRS175...)

Tag, wire, connector, etc. available

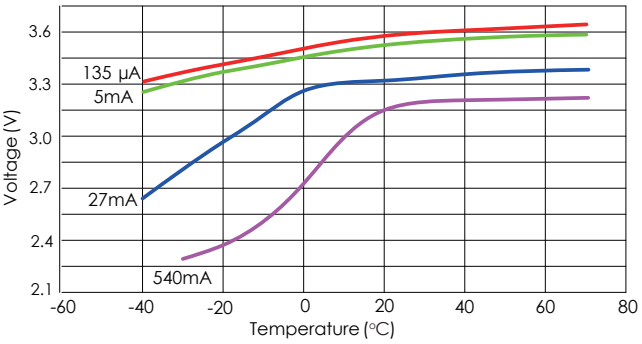


Dimensions in mm

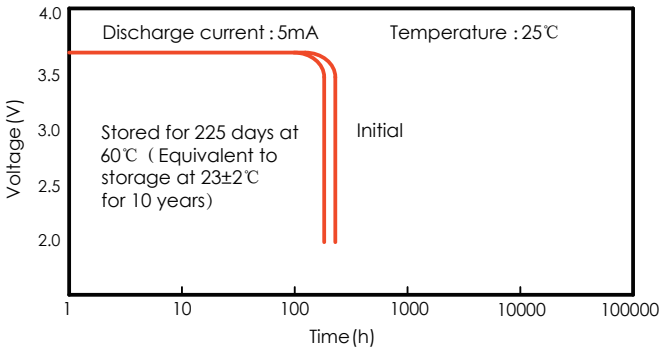
1. Typical discharge profiles at 25°C (at the mid-discharge)



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



3. Storage characteristics



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

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 withour notice.
Contact HCB for the latest information

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