We Power Your Technology

Primary Lithium Battery ER17505

3.6V Lithium-thionyl chloride[Li-$SOCl_2$]
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℃)
- 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	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	180mA

(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.)

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

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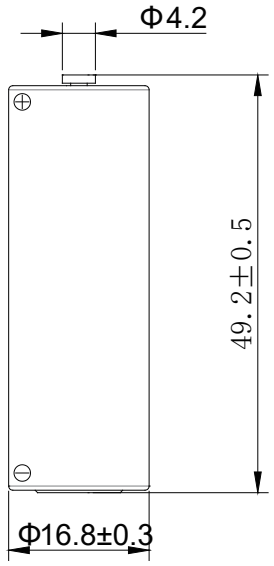
Physical Characteristics	
Diameter	16.8±0.3mm
Height	49.2±0.5mm
Typical weight	25.0g
Lithium metal content	0.93g

MSDS as per request

Diode(1N4007, 1N5819)

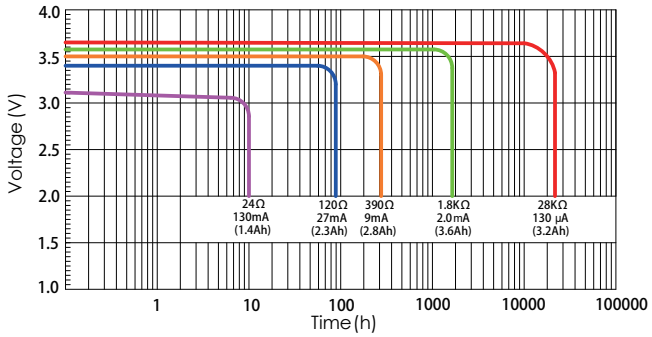
PTC(SRS175...)

Tag, wire, connector, etc. available

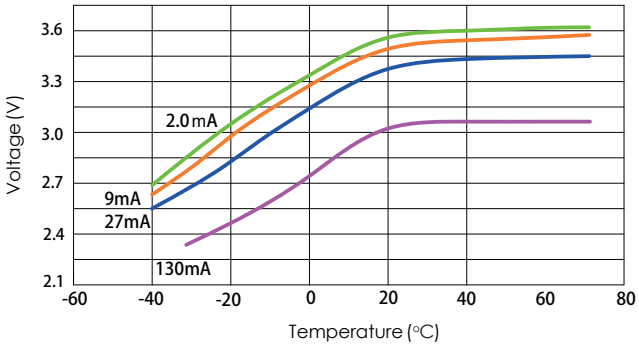


Dimensions in mm

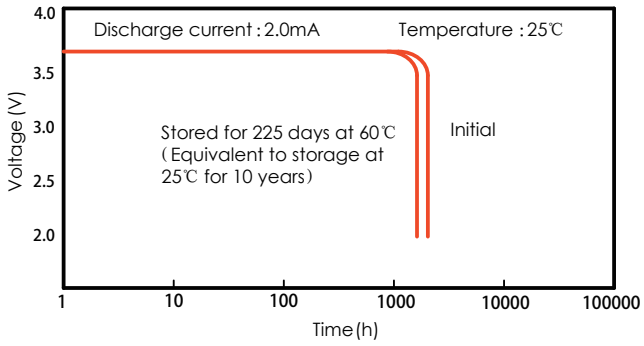
1. Typical discharge profiles at 25°C
(at the mid-discharge)



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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