

## ER13170T

3.6V Li/SOCl<sub>2</sub> Battery

1/3AA High energy ER battery

## GMB PRIMARY LITHIUM BATTERY



### ADVATAGES:

- stable high operating voltage and high capacitance
- high energy density, high stable current
- wide operating temperature rages (-55°C~+85°C)
- low self-discharge rate (annual self-discharge rate is less than 2% at +20°C)
- excellent environmental application characteristics
- stainless steel case (low magnetic resistance to environmental erosion)

### FEATURES:

- Stainless steel - glass airtight package
- Non-combustible electrolyte
- High short circuit safety
- Comply with GB 8897.4-2008 technical requirements
- Meet technical requirements of IEC60086.4:2014
- Meet RoHS environmental requirements, easy to recycle

### Main application

Utility meter; Alarm and safety equipment; Memory storage backup device; ETC; TPMS; Real time clock; Professional electronic.

## SPECIFICATIONS

(Typical data from the batteries stored at 25±5℃ for 12 months)

**Nominal Capacity:** 0.6Ah

At 1mA, +25℃ cut-off voltage 2.0V. Battery capacity varies with discharge current, ambient temperature, and cut-off voltage.

**Open Voltage** (at +25℃): 3.67V

**Nominal Voltage** (at +25℃, 0.1mA): 3.60V

**Max. Continuous Discharge Current** 8mA

(Obtained at +25℃, 50% nominal capacity, 2.0V cut-off voltage; For higher current, please consult GMB)

**Pulse Current:** 10mA

(At +25℃, the un-discharged battery starts to discharge with a base current of 10μA and releases a pulse of 10mA/0.1 seconds every 2 minutes during the discharge. The voltage reading is still higher than 3.0V. Battery voltage readings vary with pulse characteristics, temperature, and storage conditions. In harsh conditions, it is recommended that the battery be used with lithium ion composite capacitors or ultra capacitors. Please consult the GMB for details.)

**Storage (recommend)** Max.+30℃

(Please consult GMB for higher storage temperature requirements or stringent conditions)

**Working Temperate Range** -55℃~+85℃

(Exceeding the operating temperature range can result in reduced capacity, low voltage reading and low initial pulse voltage reading.)

## PHYCIAL PROPERTIES

Diameter (max.) 13.6mm

Height (Max.) 17.5mm

Typical Weight 6.5g

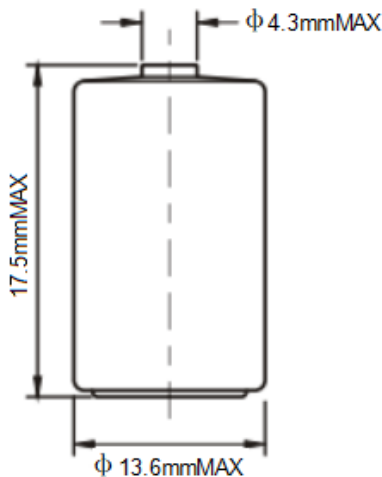
Lithium Metal Content about 0.16g

**Warning: Do not charge, short circuit, heat more than 150℃, decompose, put into water, directly in the battery shell surface welding, otherwise may cause explosion, combustion and internal acid leakage of the battery.**

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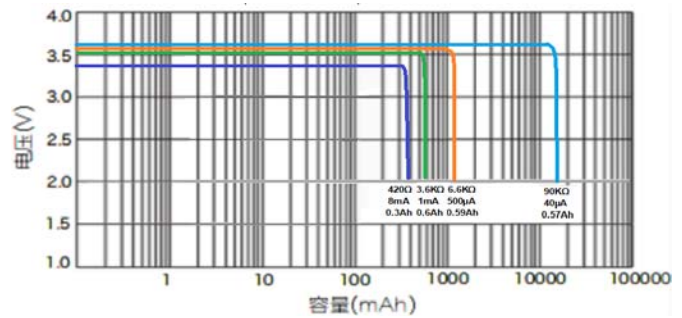
Size unit :mm (GB1804-m if tolerance is not specified)  
For special connection requests, please consult GMB.

### WARNING

- do not short out the battery
- do not charge the battery
- don't pin the batter
- do not squeeze the battery
- pay attention to the battery anode and cathode
- electrical equipment connection is correct
- do not disassemble the battery
- do not burn batteries
- do not mix old and new batteries
- do not heat the battery to more than 100°C
- do not directly weld the battery
- Do not deform or modify the battery

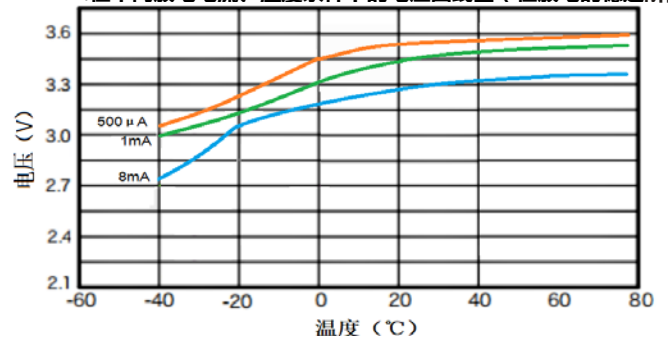
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### 1. Typical discharge curve under +25°C (intermediate value)



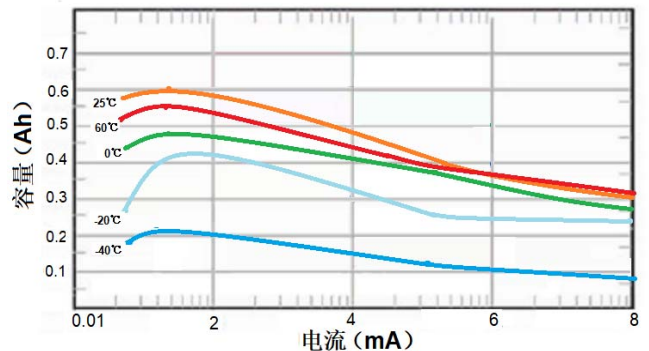
### 2. Current & Temperature VS Voltage

2.在不同放电电流、温度条件下的电压曲线图 (在放电的稳定阶段)



### 3. Capacity VS Temperature (cut off at 2.0V)

3.在不同温度和电流条件下的容量曲线图 (截止电压为 2.0V)



### 4. storage

