

# Primary Lithium Battery

## ER14505M

3.6V Lithium-thionyl chloride[Li-SOCl<sub>2</sub>]  
AA-size Spiral cell



### Benefits

- High and Stable Voltage
- Energy Density up to 907Wh/L
- 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-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	2100mAh
(At +25°C, battery discharged at continuous current 4mA until voltage reaches cut-off voltage 2.0V. The capacity can vary at different temperature, discharge current or cut-off voltage.)	
Maximum continuous current	400mA
(At +25°C, 2.0V cut-off, battery discharged for minimum 50% of nominal capacity.)	
Maximum pulse discharge current	800mA
(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.)	

# Primary Lithium Battery ER14505M

3.6V Lithium-thionyl chloride[Li-SOCl<sub>2</sub>]  
AA-size Spiral cell

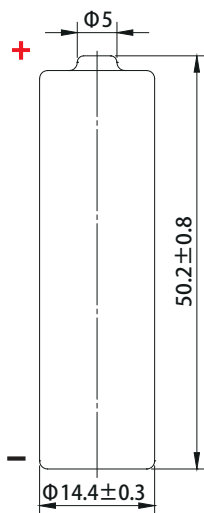


## Physical Characteristics

Diameter	14.4±0.3mm
Height	50.2±0.8mm
Typical weight	22.0g
Lithium metal content	0.6574g

MSDS as per request  
Diode (1N4007, 1N5819)  
PTC (SRS175...)

Tag, wire, connector, etc. available



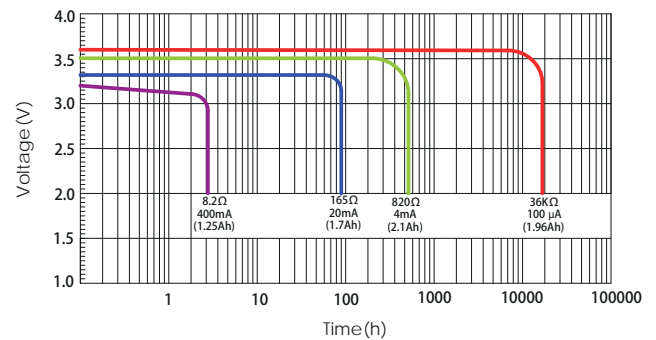
Dimensions in mm

## WARNING:

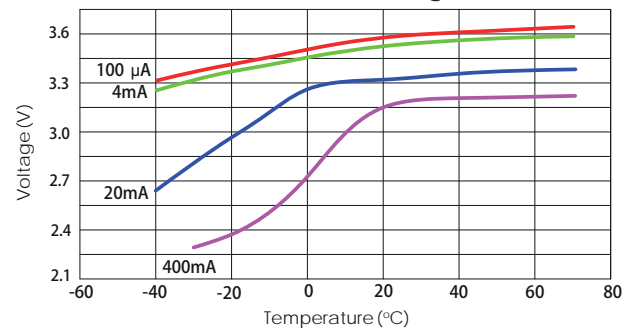
- Do not short circuit
- Do not recharge
- Do not puncture
- Do not crush
- Do not dismantle
- Do not incinerate
- Do not mix new and used batteries
- Do not heat above 100°C

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/specifications are subject to modification without notice. Contact HCB for the latest information

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

