

LITHIUM BATTERY

Primary lithium batteries ER10450S

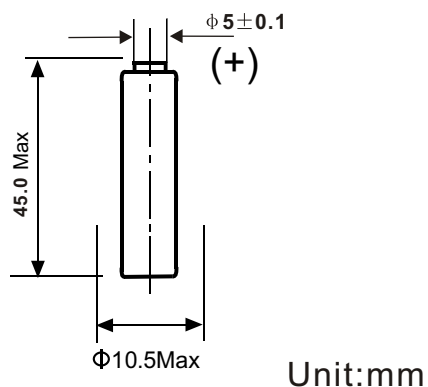
**3.6V Primary lithium-thionyl chloride
(Li-SOCl₂) High Temperature type
bobbin cell**

For high drain/high pulses applications requesting superior voltage response in -40°C~+150°C environments.

| Cell size references | AAA |
|---|--|
| Electrical characteristics (typical values relative to cells stored for one year or less at +150°C max.) | |
| Nominal capacity (at 10 mA +150°C 2.0V cut off. The capacity resbred by the cell varies according to current drain, temperature and cut off). | 0.6Ah |
| Open circuit voltage (at +150°C) | 3.66V |
| Nominal voltage (at 10mA +150°C) | 3.6V |
| Pulse capability: Typically up to 50 mA (50 mA/0.1 second pulses drained every 2 mn at +20°C from undischarged cells with 10 μ A base current, yield voltage readings above 3.0V. The readings may vary accöding 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 pbq) | |
| Max. Continuous current | 10mA |
| Max. Pulse current | 50mA |
| Storage (recommended) (for more severe conditions, consult pbq) | +150°C max |
| Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginring of pulses. Consult pbq) | -40°C / +150°C |
| Physical characteristics | |
| Diameter (max) | 10.5mm(0.4 in) |
| Height (max) | 45mm(1.8 in) |
| Typical weight | 11g(0.33oz) |
| Available termination suffix | radial tabs, radial pins, axid leads, flying leads |

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**Key features**

- ▶ High and stable operating voltage
- ▶ Superior drain capability
- ▶ Low self-discharge rate (less than 3% after 1year of storage at +20°C)
- ▶ Hermetic glass-to-metal sealing
- ▶ Notch technology for safety vent is recommended
- ▶ Non-flammable electrolyte

Main applications

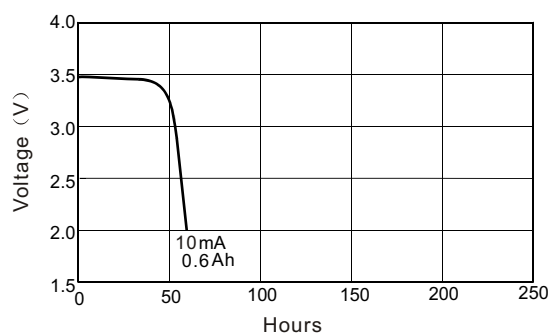
- ▶ Radiocommunication and other military applications
- ▶ Alarms and security systems
- ▶ Beacons and emergency location transmitters
- ▶ GPS
- ▶ Metering systems
- ▶ Sonobuoys
- ▶ LED lighting applications
- ▶ Others

Storage

- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

- ▶ Do not use if the battery casing was mangled.
- ▶ Don't use different models of battery in series.
- ▶ Do not try to recharge.

Characteristic curves**Discharge performance (150°C)****Nominal capacity 0.6Ah (10mA to 2.0V)****Current VS Temperature**