

LITHIUM BATTERY

Primary lithium batteries ER13150S

**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

Electrical characteristics

(typical values relative to cells stored for one year or less at +150°C max.)

Nominal capacity (at 4 mA +150°C 2.0V cut off. The capacity resbred by the cell varies according to current drain, temperature and cut off).	0.32Ah
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Open circuit voltage (at +150°C)	3.66V
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Nominal voltage (at 4mA +150°C)	3.6V
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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
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Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult pbq)	-40°C / +150°C
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Physical characteristics

Diameter (max)	13mm(0.45 in)
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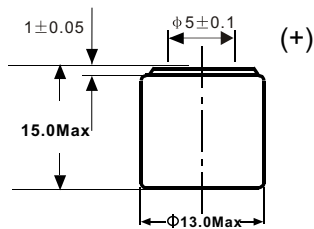
Height (max)	15mm(0.6 in)
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Typical weight	6g(0.18oz)
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Available termination suffix	radial tabs, radial pins, axid leads, flying leads
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Unit:mm

Key features

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

Main applications

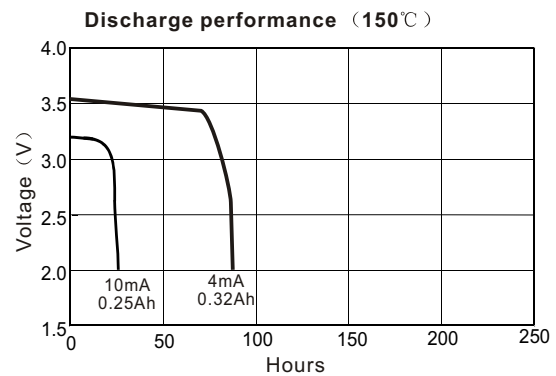
- ▶ Radiocommunication and other military applications
- ▶ Alarms and security systems
- ▶ Beacons and emergency location transmitters
- ▶ GPS
- ▶ Metering systems
- ▶ Sonobuoys
- ▶ LED lighting applications
- ▶ Others

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**Nominal capacity 0.32Ah (4mA to 2.0V) .**