

Primary lithium batteries

ER14250 1/2AA 3.6V 1.2Ah



**3.6V Primary lithium-thionyl chloride
(Li-SOCl₂) Energy type
1/2AA -size bobbin cell**

For **low drain / long term operating** applications requesting superior voltage response in -55 °C~+85 °C environments.

Cell size references

1/2UM3 - 1/2R6 - 1/2AA

Alternative models

LS14250/LST14250/LS14250C/TL-4902/TL-5902/SB-AA02/XL-050F

Electrical characteristics

(typical values relative to cells stored for one year or less at +30° max.)

Nominal capacity (at 0.5 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off). 1.2Ah

Open circuit voltage (at +20°C) 3.66V

Nominal voltage (at 0.5mA +20°C) 3.6V

Pulse capability: Typically up to 100 mA (100 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 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 ABLE)

Max. Continuous current 50mA
Max. Pulse current 100mA

Storage (recommended) +30°C (+86°F) max
(for more severe conditions, consult ABLE)

Operating temperature range -55°C / +85°C
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult ABLE) (-76°F / +185°F)

Physical characteristics

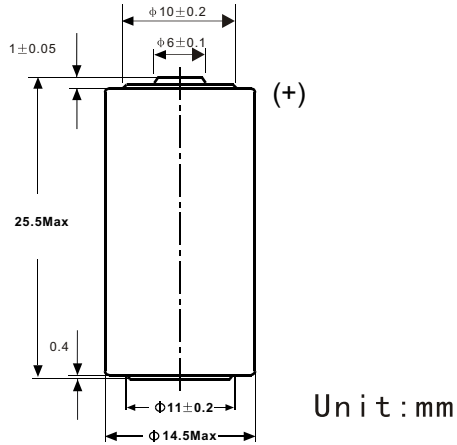
Diameter (max) 14.5mm(0.55 in)

Height (max) 25mm(1 in)

Typical weight 10g(0.327oz)

Available termination suffix [radial tabs](#), [radial pins](#), [axial leads](#), [flying leads](#),

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Key features

- ▶ High and stable operating voltage
- ▶ Superior drain capability
- ▶ Low self-discharge rate (less than 1% after 1 year of storage at +20°C)
- ▶ Optional stainless steel container for low magnetic and nickel plated steel container for more safe design
- ▶ 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

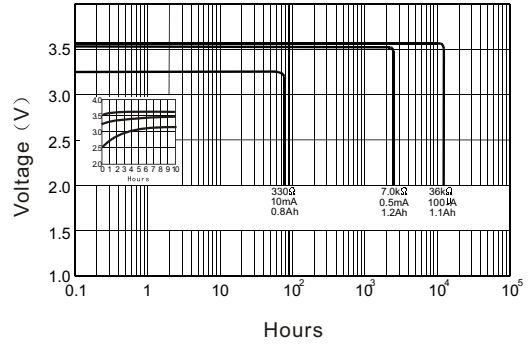
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

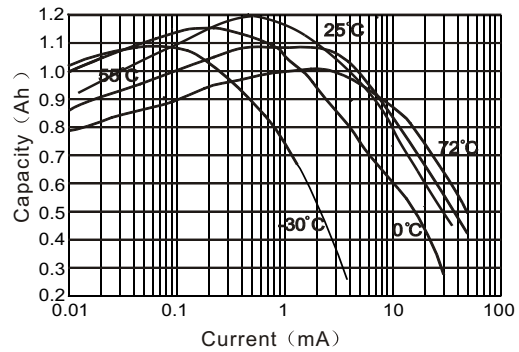
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need or consult ABLE.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

Characteristic curves

Discharge performance (25°C)



Capacity VS Current



Voltage VS Temperature

