



LITHIUM BATTERY

Primary lithium batteries ER14505

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

For high drain/high pulses applications requesting superior voltage response in -55°C~+85°C environments.

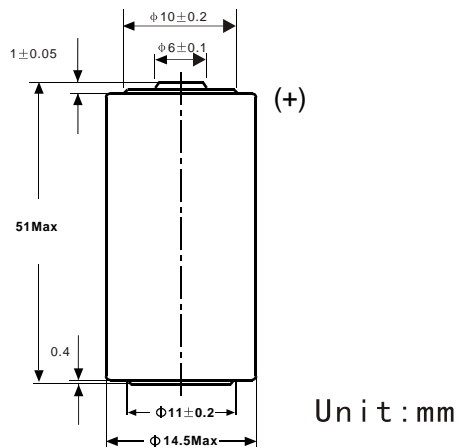
Cell size references (UM3 - R6 -AA)

Alternative models LS14500/LST14500/LS14500C/TL4903/SB-AA11

Electrical characteristics (typical values relative to cells stored for one year or less at +30° max.)	
Nominal capacity (at 1 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).	2.4Ah
Open circuit voltage (at +20°C)	3.66V
Nominal voltage (at 1mA +20°C)	3.6V
Pulse capability: Typically up to 200 mA (200 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.)	
Max. Continuous current	100mA
Max. Pulse current	200mA
Storage (recommended) (for more severe conditions)	+30°C (+86°F) max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses)	-55°C / +85°C (-76°F / +185°F)
Physical characteristics	
Diameter (max)	14.5mm(0.55 in)
Height (max)	50.5mm(2 in)
Typical weight	19g(0.622oz)
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

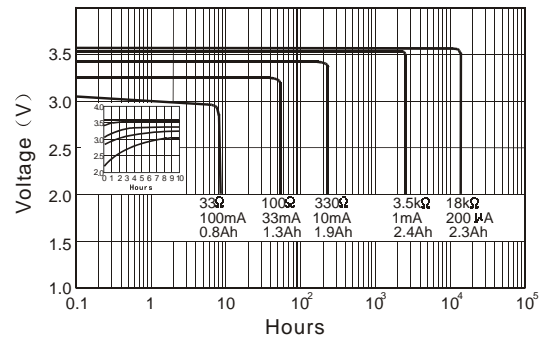
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

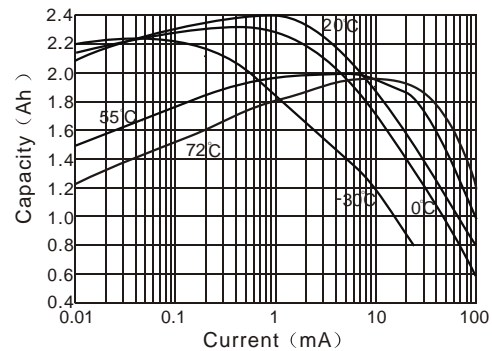
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need or consult us.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

■ Characteristic curves

Discharge performance (25°C)



Capacity VS Current



Voltage VS Temperature

