

Primary lithium batteries

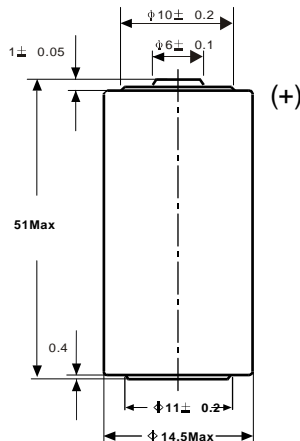
ER14505 AA 3.6V 2.4Ah

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

For low drain / long term operating
applications requesting superior voltage response in -67F ~+185F
environments.

Cell size references		UM3 - R6 -AA
Alternative models	LS14500/LST14500/LS14500C/TL-4903/SB-AA11	
Electrical characteristics		
(typical values relative to cells stored for one year or less at +86F max.)		
Nominal capacity(at 1 mA +20 2.0V cut off. The capacity 2.4Ah restored by the cell varies according to current drain, temperature and cut off).		
Open circuit voltage (at +68F)	3.66V	
Nominal voltage (at 1mA +68F)	3.6V	
Pulse capability: Typically up to 200 mA (200mA / 0.1 second pulses, drained every 2mn at +68F from undischarged cells with 10 μA 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 TABLE)		
Max. Continuous current	100mA	
Max. Pulse current	200mA	
Storage(recommended) (for more severe conditions, consult ABLE)	+86F max	
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult ABLE)	-76F / +185F	
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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Unit:mm

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

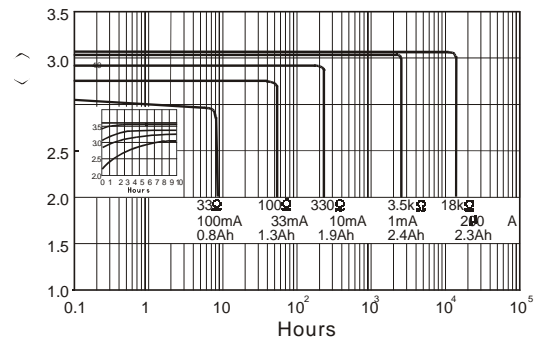
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

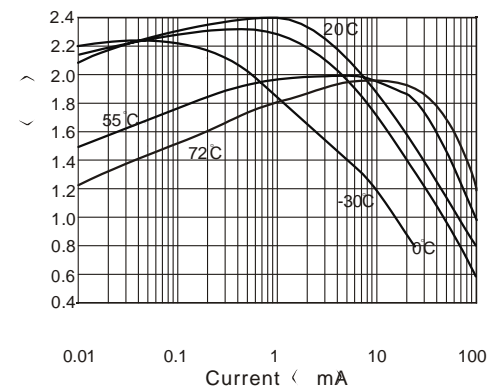
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need or consult ABLE.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

Characteristic curves

Discharge performance (25°C)



Capacity VS Current



Voltage VS Temperature

