

DATA SHEET OF



Lithium BackUp Batteries

CUSTOMER	
MODEL	ER14505
DATE	2009
SPECIFICATION	Memory Backup Lithium Batteries Li/SOCl ₂ 3.6V 2400 mAh [AA]
CUSTOMER REF:	
Industrial Packaging	Industrial Bulk



Hong Kong Batteries Manufactory Limited

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LITHIUM BATTERY

Primary lithium batteries ER14505

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

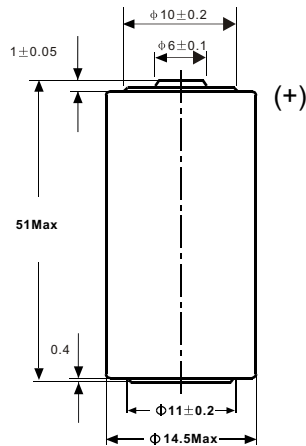
For high drain/high pulses applications requesting superior voltage response in -55°C~+85°C environments.

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 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
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	

LITHIUM BATTERY

ER14505



Unit:mm

Key features

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

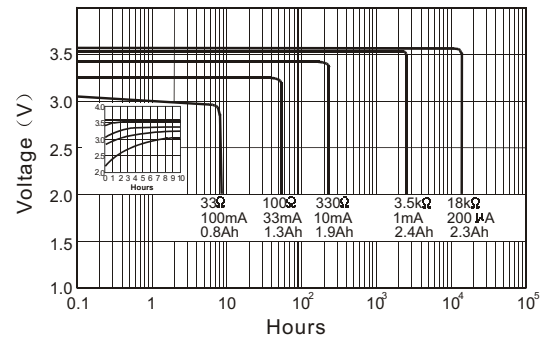
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

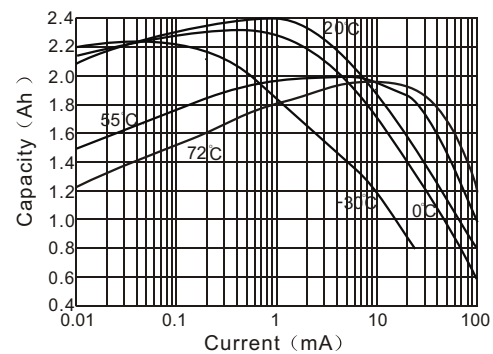
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

Characteristic curves

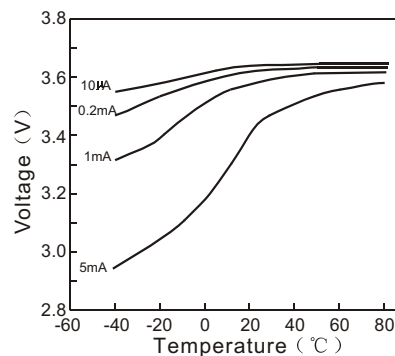
Discharge performance (25°C)



Capacity VS Current



Voltage VS Temperature

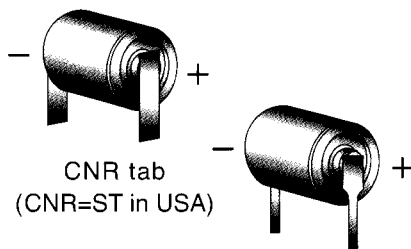


Lithium Thionyl Chloride Cylindrical Batteries 3.6V

Welded Terminals

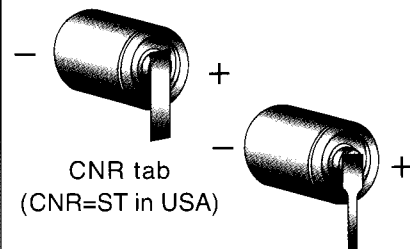


STD without tabs



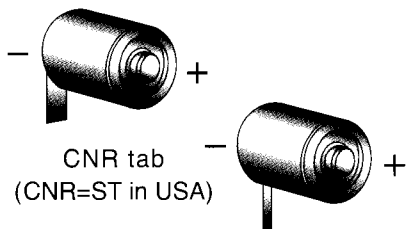
CNR tab
(CNR=ST in USA)

CN tab



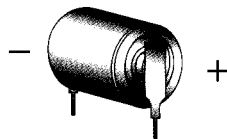
CNR tab
(CNR=ST in USA)

CN tab

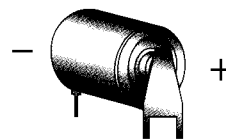


CNR tab
(CNR=ST in USA)

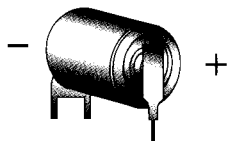
CN tab



2 PF tabs



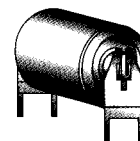
3 PF tabs



3 PF RP tabs



CNA axial tabs (AX in USA)



4 PF tabs