

DATA SHEET OF



Lithium BackUp Batteries

CUSTOMER	
MODEL	ER14250
DATE	2009
SPECIFICATION	Memory Backup Lithium Batteries Li/SOCl ₂ 3.6V 1200 mAh [1/2 AA]
CUSTOMER REF:	
Industrial Packaging	Industrial Bulk



Hong Kong Batteries Manufactory Limited

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LITHIUM BATTERY

Primary lithium batteries ER14250

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

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

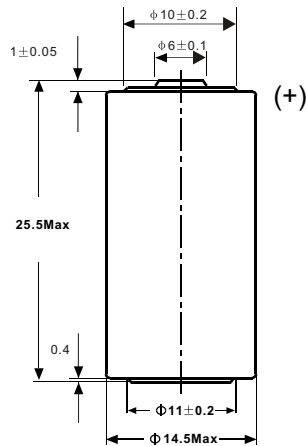
Cell size references (1/2UM3 - 1/2R6 - 1/2AA)

Alternative models LS14250/LST14250/LS14250C/TL4902/SB-AA02/SB-AA02P

Electrical characteristics (typical values relative to cells stored for one year or less at +30°C 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 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.)	
Max. Continuous current	50mA
Max. Pulse current	100mA
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)	14.2mm(0.55 in)
Height (max)	24.6mm(1 in)
Typical weight	10g(0.327oz)
Available termination suffix	radial tabs, radial pins, axial leads, flying leads

LITHIUM BATTERY

ER14250



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
- ▶ 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

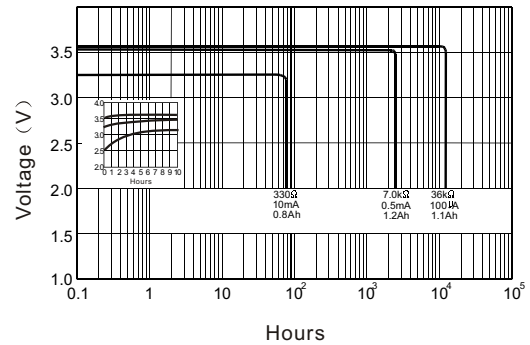
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

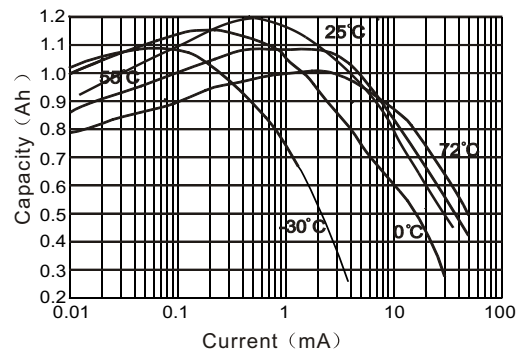
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

Characteristic curves

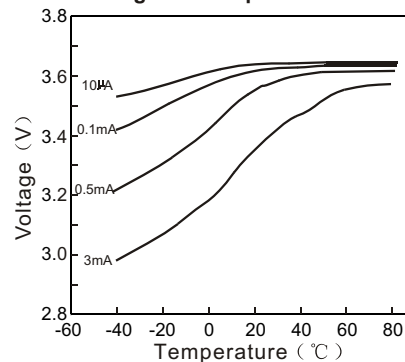
Discharge performance (25°C)



Capacity VS Current



Voltage VS Temperature

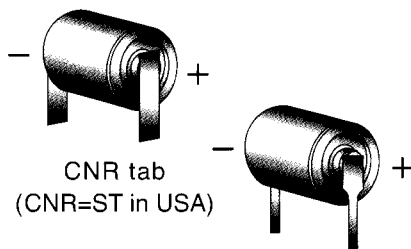


Lithium Thionyl Chloride Cylindrical Batteries 3.6V

Welded Terminals

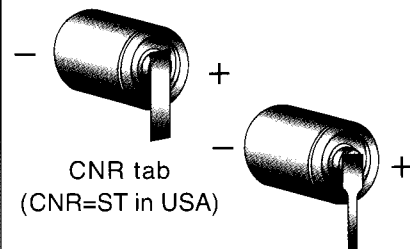


STD without tabs



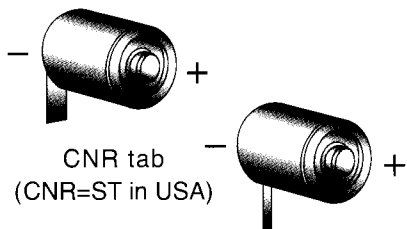
CNR tab
(CNR=ST in USA)

CN tab



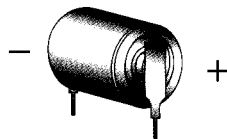
CNR tab
(CNR=ST in USA)

CN tab

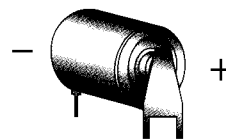


CNR tab
(CNR=ST in USA)

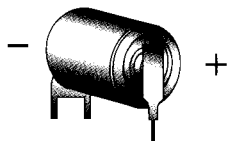
CN tab



2 PF tabs



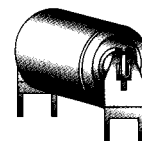
3 PF tabs



3 PF RP tabs



CNA axial tabs (AX in USA)



4 PF tabs