

# DATA SHEET OF



## Lithium BackUp Batteries

CUSTOMER	
MODEL	ER14335
DATE	2009
SPECIFICATION	Memory Backup Lithium Batteries Li/SOCl <sub>2</sub> 3.6V 1600 mAh [ 2/3 AA ]
CUSTOMER REF:	
Industrial Packaging	Industrial Bulk



### Hong Kong Batteries Manufactory Limited

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# LITHIUM BATTERY

## Primary lithium batteries ER14335

**3.6V Primary lithium-thionyl chloride  
(Li-SOCl<sub>2</sub>) Energy type  
2/3AA-size bobbin cell**

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

### Cell size references

( 2/3 AA)

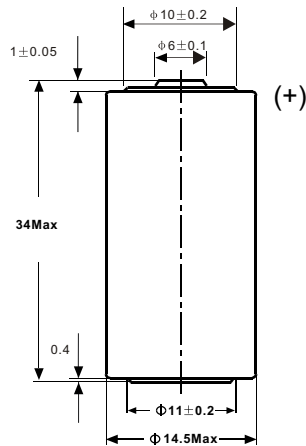
### Alternative models

TL4955

Electrical characteristics (typical values relative to cells stored for one year or less at +30°C max.)	
Nominal capacity (at 0.7 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).	1.6Ah
Open circuit voltage (at +20°C)	3.66V
Nominal voltage (at 0.7mA +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)	14.5mm(0.55 in)
Height (max)	33.5mm(1.34 in)
Typical weight	13g(0.425oz)
Available termination suffix	radial tabs, radial pins, axial leads, flying leads

# LITHIUM BATTERY

## ER14335



### 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

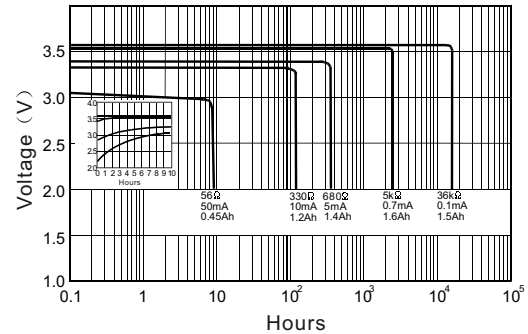
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

### Warning

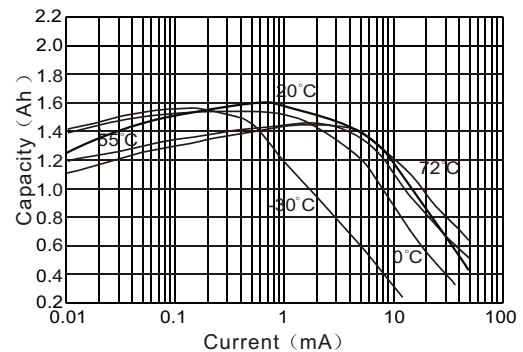
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need or consult ABLE.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

## Characteristic curves

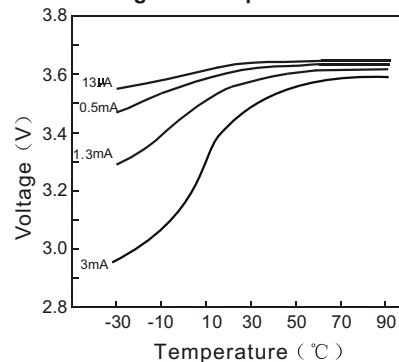
### Discharge performance (25°C)



### Capacity VS Current



### Voltage VS Temperature

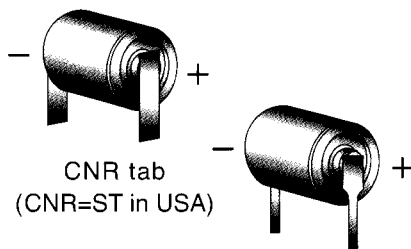


# Lithium Thionyl Chloride Cylindrical Batteries 3.6V

## Welded Terminals

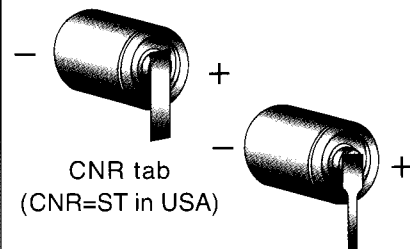


STD without tabs



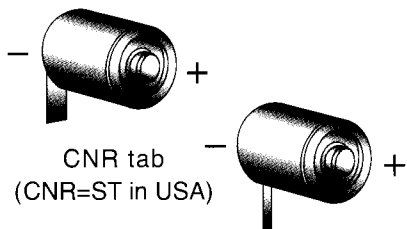
CNR tab  
(CNR=ST in USA)

CN tab



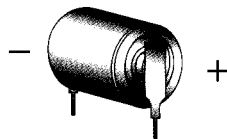
CNR tab  
(CNR=ST in USA)

CN tab

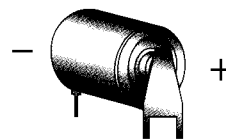


CNR tab  
(CNR=ST in USA)

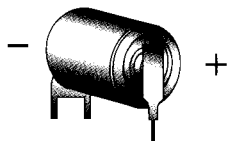
CN tab



2 PF tabs



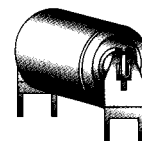
3 PF tabs



3 PF RP tabs



CNA axial tabs (AX in USA)



4 PF tabs