

# DATA SHEET OF



## Lithium BackUp Batteries

CUSTOMER	
MODEL	ER17335
DATE	2009
SPECIFICATION	Memory Backup Lithium Batteries Li/SOCl <sub>2</sub> 3.6V 1900 mAh [ 2/3A ]
CUSTOMER REF:	
Industrial Packaging	Industrial Bulk



### Hong Kong Batteries Manufactory Limited

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# LITHIUM BATTERY

## Primary lithium batteries ER17335

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

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

### Cell size references

( 2/3A )

### Alternative models

LS17330

#### Electrical characteristics

(typical values relative to cells stored for one year or less at +30°C max.)

Nominal capacity

1.9Ah

(at 1 mA +20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).

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 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.  
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Max. Continuous current

100mA

Max. Pulse current

200mA

Storage (recommended)

+30°C max

(for more severe conditions)

Operating temperature range

-55°C / +85°C

(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses)

#### Physical characteristics

Diameter (max)

17.5mm(0.67 in)

Height (max)

33.5mm(1.34 in)

Typical weight

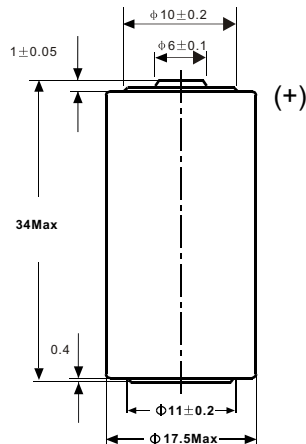
18g(0.59oz)

Available termination suffix

radial tabs, radial pins, axial leads, flying leads

# LITHIUM BATTERY

## ER17335



### 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

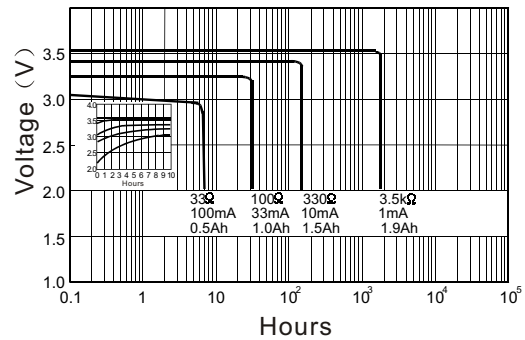
- ▶ The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

### Warning

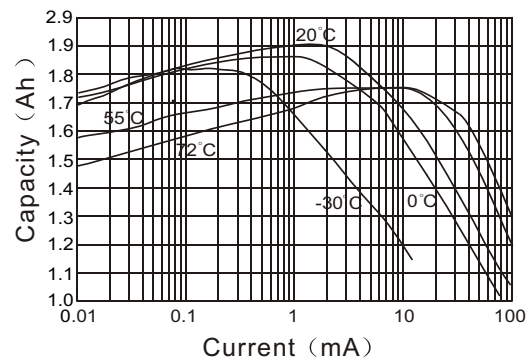
- ▶ Do not use if the battery casing was mangled.
- ▶ Please discharge the battery few minutes with 100mA, if the battery voltage is lower than your need.
- ▶ Don't use different models of battery in series.
- ▶ Soldering the tag should be finished in few seconds.
- ▶ Do not try to recharge.

## Characteristic curves

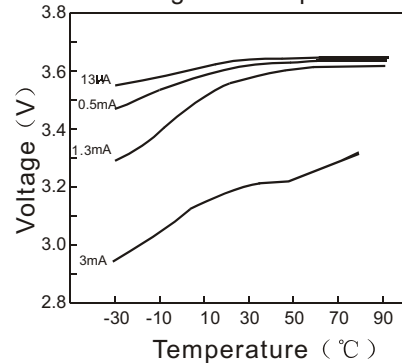
Discharge performance (25°C)



Capacity VS Current



Voltage VS Temperature



# Lithium Thionyl Chloride Cylindrical Batteries 3.6V

## Welded Terminals

