

Primary lithium battery

LS 14250

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂)

High energy density

1/2 AA-size bobbin cell



Benefits

- High voltage, stable during most of the application's lifetime
- Wide operating temperature range
- Low self-discharge rate
(less than 1% per year of storage at +20°C)
- Easy integration into compact systems

Key features

- Stainless steel container and end caps
(low magnetic signature)
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Compliant with IEC 86-4 safety standard and EN 50020 intrinsic safety standard
- Underwriters Laboratories (UL) Component Recognition
(File Number MH 12609)
- Non-restricted for transport

Main applications

- Utility metering
- Automatic meter reading
- Alarms and security devices
- Toll collection
- Memory back-up
- Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics

Cell size references

1/2 UM3 - 1/2 R6 - 1/2 AA

Electrical characteristics

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

Nominal capacity 1.10 Ah

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

Open circuit voltage (at +20°C) 3.67 V

Nominal voltage (at 0.1 mA + 20°C) 3.6 V

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 3.0 V. 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 Saft)

Continuous current permitting 50% of the nominal capacity to be achieved at +20°C with 2.0 V cut off.
(Higher currents are possible, consult Saft)

40 mA

Storage (recommended) +30°C (+86°F) max
(for more severe conditions, consult Saft)

Operating temperature range -60°C/+85°C
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)
(-76°F/+185°F)

Physical characteristics

Diameter (max) 14.65 mm (0.58 in)

Height (max) 24.8 mm (0.98 in)

Typical weight 8.9 g (0.3 oz)

Li metal content approx. 0.3 g

Available termination suffix

CN, CNR

2 PF, 3 PF, 3 PF RP, 4 PF

CNA (AX)

FL

radial tabs

radial pins

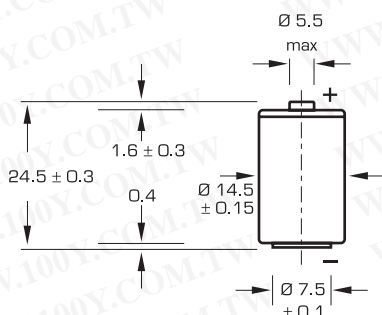
axial leads

flying leads ...etc.

勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



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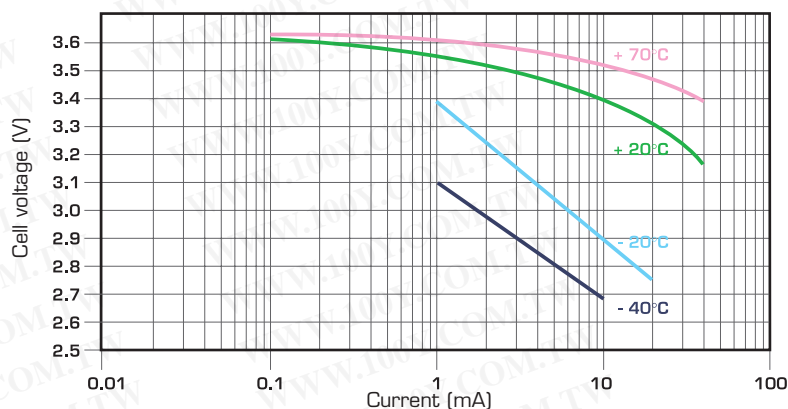
Dimensions in mm.

Storage

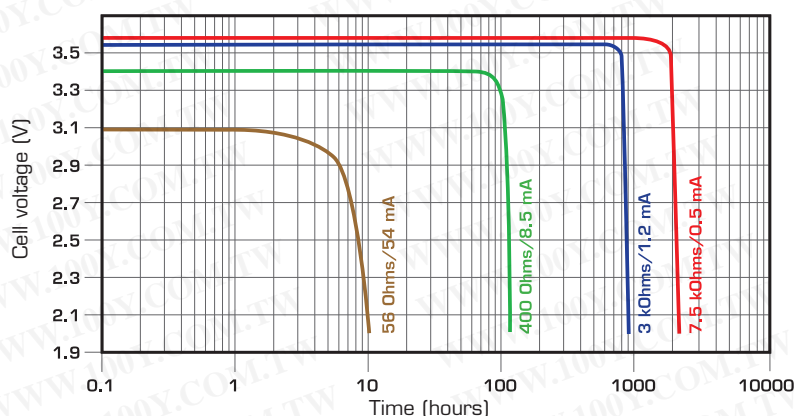
- The storage area should be clean, cool (not exceeding +30°C), dry and ventilated.

Warning

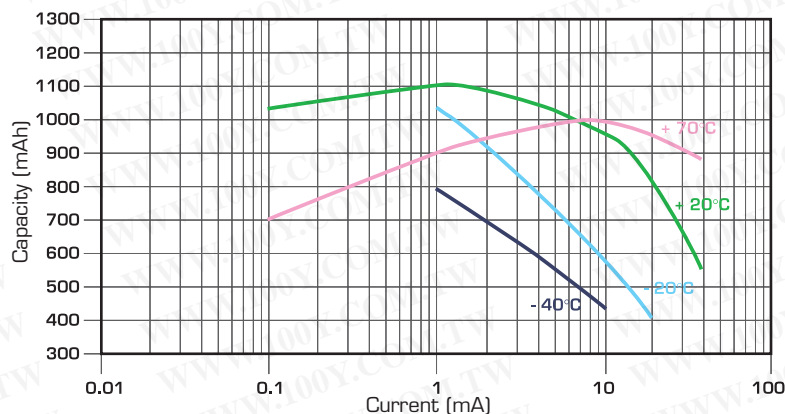
- Fire, explosion and severe burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).



Voltage plateau versus Current and Temperature (at mid-discharge)



Typical discharge profiles at +20°C



Restored Capacity versus Current and Temperature (2.0 V cut off)

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