

# Primary lithium battery

## LS 14250

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

High energy density

½AA-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
- Superior resistance to atmospheric corrosion

### 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 IEC 60079-11 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
- Memory back-up
- Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics

### Cell size references

½ R6 – ½ AA

### Electrical characteristics

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

Nominal capacity	1.20 Ah
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(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
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Nominal voltage	(at 0.1 mA + 20°C)	3.6 V
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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)

Maximum recommended continuous current	35 mA
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(Higher currents are possible, consult Saft)

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)
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Height (max)	24.8 mm (0.98 in)
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Typical weight	8.9 g (0.3 oz)
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Li metal content	approx. 0.3 g
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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.



**saft**