# Primary lithium battery LS 14250

# 3.6 V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High energy density ½AA-size bobbin cell



1/2 R6 - 1/2 AA

### **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

#### Electrical characteristics

(typical values relative to cells stored for one year or less at + 30°C max.)	
Nominal capacity	1.20 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
drained every 2 mn a current, yield voltage to the pulse characte	cally up to 100 mA (100 mA/0.1 second pulses, t + 20°C from undischarged cells with 10 µA base readings above 3.0 V. The readings may vary acc ristics, the temperature, and the cell's previous hi capacitor may be recommended in severe condition	cording istory.
	ded continuous current possible, consult Saft)	35 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°F) max
Operating temperatur		- 60°C /+ 85°C

Operating temperature range- 60°C/+ 85°C(Operation above ambient T may lead to reduced capacity and<br/>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 leadsetc.		



# LS 14250

1.35 ± 0.2

0.4

Ø 14.5

± 0.15

Dimensions in mm.

 $24.5 \pm 0.3$ 

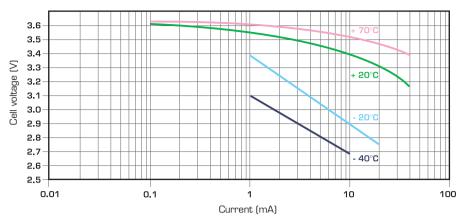
Ø 5.5

max

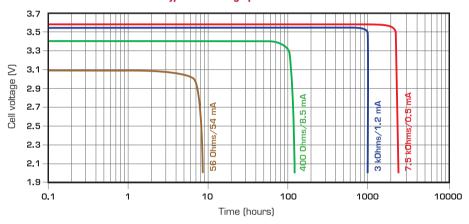
Ø 7.5 🖛

± 0.1

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







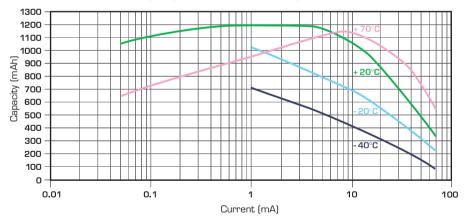
## Storage

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

#### Warning

- Fire, explosion and 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).

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



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