Primary lithium battery LS 14250

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High energy density ½ AA-size bobbin cell

Benefits

- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/+85°C)
- 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 60086-4 safety standard and IEC 60079-11 intrinsic safety standard (*class T4 assignment*)
- Underwriters Laboratories (UL)
 Component Recognition
- Non-restricted for transport/ Non-assigned to Class 9 according to the UN Recommendations on the transport of dangerous goods
 Model Regulations
- Manufactured in France, UK, China

Main applications

- Utility metering
- Automatic meter reading
- Alarms and security devices
- Tollgate systems
- 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 (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)

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Open circuit voltage	(at +20°C)	3.67 V
Nominal voltage	(at 0.1 mA +20°C)	3.6 V
Nominal energy		4.32 Wh

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 μ A 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 (Higher currents are possible, consult Saft)		35 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+30°C (+86°F) max
Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)		-60°C/+85°C (-76°F/+185°F)

Physical characteristics

Diameter (max)			14.55 mm (0.57 in)	
Height (max)			25.15 mm (0.99 in)	
Typical weight			8.9 g (0.3 oz)	
Li metal content			approx. 0.3 g	
Available termination suffix				
	CN, CNR	radial tabs		
	2 PF. 3 PF. 3 PF RP. 4 PF	radial pins		
	CNA (AX)	axial leads		
	FL	flying leads <i>etc.</i>		





1/2 R6 - 1/2 AA

1.20 Ah

LS 14250



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)



Saft

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