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 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

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Cell size references

Electrical characteristics

(typical values relative	to cells stored for one year or less at +30°C max.)			
	V cut-off. The capacity restored by the cell varies Irain, temperature and cut-off)	1.20 Ah		
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		
undischarged cells with 3.0 V. The readings n temperature, and the	IIy up to 100 mA pulses, drained every 2 mn at +20°C from h 10 μA base current, yield voltage readings above hay vary according to the pulse characteristics, the cell's previous history. Fitting the cell with a capacitor 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 s	Suffix CN, CNR 2 PF, 3 PF, 3 PF RP, 4 PF CNA (AX) FL	radial tabs radial pins axial leads flying leads <i>etc.</i>		

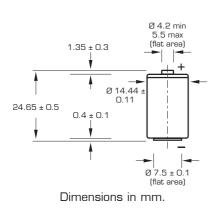


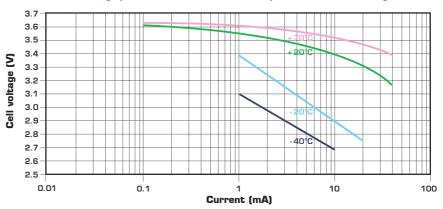


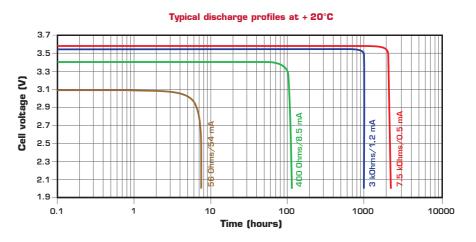
1/2 R6 - 1/2 AA

LS 14250

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







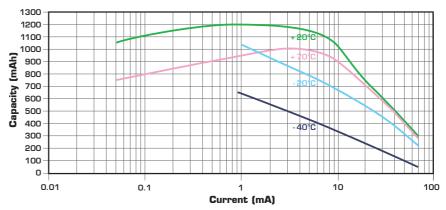
Storage

• 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)



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