Primary lithium battery

LS 14250

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

(typical values relative	to cells stored for one year or less at $+30^{\circ}$ 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		

Pulse capability: Typically up to 100 mA (100 mA/0.1 second pulses, drained every 2 mn at $+20^{\circ}\mathrm{C}$ from undischarged cells with 10 $\mu\mathrm{A}$ 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)

	mmended continuous current is 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

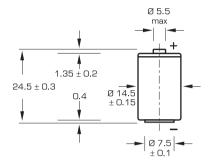
Diameter (max)	14.65 mm (0.58 in)
Height (max)	24.8 mm (0.98 in)
Typical weight	8.9 g (0.3 oz)
Li metal content	approx. 0.3 g

Available termination suffix

CN, CNR radial tabs
2 PF, 3 PF, 3 PF RP, 4 PF radial pins
CNA (AX) axial leads
FL flying leads ...etc.

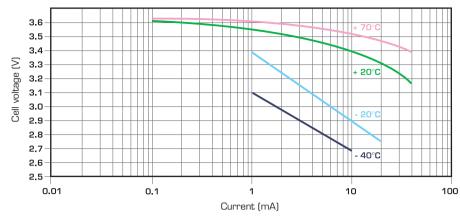


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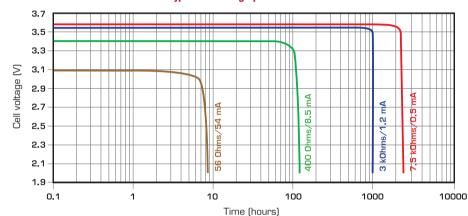


Dimensions in mm.

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







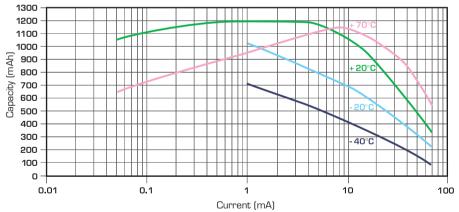
Storage

• 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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