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

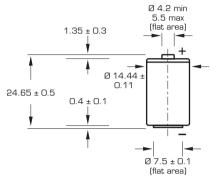
Main applications

- 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 refere	nces		1/2 R6 – 1/2 AA
Electrical characte	ristics		
(typical values relative	to cells stored for one year or l	ess at +30°C max.)	
	V cut-off. The capacity restored drain, temperature and cut-off)	by the cell varies	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 wit 3.0 V. The readings r temperature, and the	ally up to 100 mA I pulses, drained every 2 mn at th 10 µA base current, yield volt may vary according to the pulse cell's previous history. Fitting th I in severe conditions. Consult S	age readings above characteristics, the e cell with a capacitor	
Maximum recommend (Higher currents are p	led continuous current cossible, consult Saft)		35 mA
Storage	(recommended) (for more severe conditions, c	onsult 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 character	istics		
Diameter (max)			14.55 mm (0.57 in)
Height (max)			25.15 mm (0.99 in)
Typical weight			8.9 g (O.3 oz)
Li metal content			approx. O.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> .	



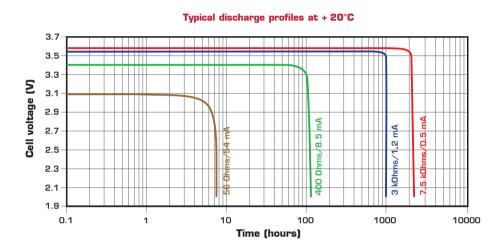
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Dimensions in mm.

3.7 3.6 3.5 30°C 3.4 voltage (V) 3.3 3.2 3.1 3.0 Cel 2.9 2.8 -40℃ 2.7 2.6 2.5 0.01 0.1 10 100 Current (mA)

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



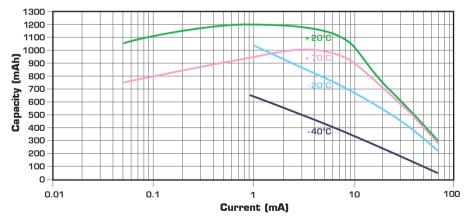
Storage

 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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Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N $^\circ$ 31048-2.

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