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, 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

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 EN 50020 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
- Toll collection
- Memory back-up
- · Computer real-time clocks
- Tracking systems
- Automotive electronics
- Professional electronics

Cell size refere	nces /	2 UIVI3 - /2 Kb - /2 AA	
Electrical characteristics			
(typical values relative	to cells stored for one year or less at +30°C r.	nax.)	
Nominal capacity		1.10 Ah	
•) V cut off. The capacity restored by the cell val drain, temperature and cut off)	ries	
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 character	ally up to 100 mA (100 mA/0.1 second pulse t + 20°C from undischarged cells with 10 µA bareadings above 3.0 V. The readings may vary a ristics, the temperature, and the cell's previous capacitor may be recommended in severe cond	ase according history.	

to be achieved	rent permitting 50% of the nominal capacity at +20°C with 2.0 V cut off. is are possible, consult Saft)	40 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		-60°C/+85°C (-76°F/+185°F)
lower voltage ri	eadings at the beginning of pulses. Consult Saft)	

Physical characteristics

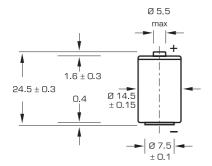
Consult Saft)

Diameter (max)	14.65 mm (0.58 in)
Height (max)	24.8 mm (0.98 in)
Typical weight	8.9 g (O.3 oz)
Li metal content	approx. O.3 g
Available termination suffix	

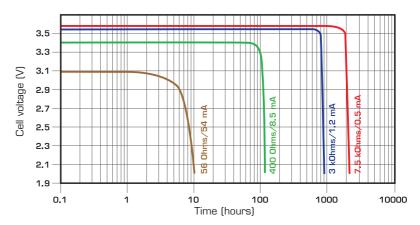
TIX
CN, CNR
radial tabs
2 PF, 3 PF, 3 PF RP, 4 PF
radial pins
CNA (AX)
axial leads
FL
flying leads ...etc.



LS 14250



Dimensions in mm.



Current (mA)

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

- 40°C

100

10

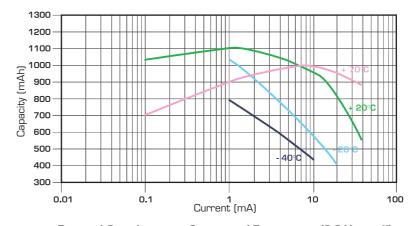
Typical discharge profiles at + 20°C

Storage

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

Warning

- Fire, explosion and severe 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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3.6 3.5 3.4 3.3

3.2 3.1 3.0 2.9 2.8 2.7

2.6

0.01

0.1

Cell voltage (V)

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° 31048-2.

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