LS 14250 Primary Li-SOCl₂ cell

High energy density 3.6 V 1/2 AA-size bobbin cell

Saft's LS 14250 cell is ideally suited for long-term applications (typically from 5 to 20+years), featuring low base currents and periodic pulses.

Benefits

- High capacity and high energy
- (1024 Wh/l and 480 Wh/kg)
- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (- 60 °C / + 85 °C)
- Low self-discharge rate compatible with long operating life (less than 1% per year of storage, at +20°C, after 1 year)
- Superior resistance to corrosion
- Low magnetic signature

Key features

- Bobbin construction
- Well controlled passivation
- Hermetic construction with glass-tometal seal
- Stainless steel container
- Non-flammable electrolyte
- RoHS and REACH compliance
- Made in France, China, UK

Designed to meet all major quality, safety and environment standards

- Safety: UL 1642, IEC 60086-4
- ATEX: IEC 60079-11 part 10.5
- (T4 rating at + 60 °C)
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001, Saft World Class continuous program

Typical applications

- Utility Metering
- Internet of Things
- Tracking
- Monitoring sensors
- Alarms and security
- Medical devices



Electrical characteristics	
(Typical values relative to cells stored up to one year at + 30 °C max)	
Nominal capacity (under 1 mA, + 20 °C, 2.0 V cut-off) ⁽¹⁾	1.2 Ah
Open circuit voltage (at + 20 °C)	3.67 V
Nominal voltage (under 0.1 mA, + 20 °C)	3.6 V
Nominal energy	4.32 Wh
Pulse capability ⁽²⁾	Up to 100 mA
Maximum recommended continuous current	30 mA
Operating conditions	

operating conditions		
Operating temperature range ⁽³⁾	-60 °C / + 85	°C (- 76 °F / + 185 °F)
Storage temperatures	Max. recommended ⁽⁴⁾	+ 30 °C (+ 86 °F)

Physical characteristics	
Diameter (max)	14.62 mm (0.57 in)
Height (max)	25.13 mm (.99 in)
Typical weight	9 g (0.31 oz)
Li metal content	approx. 0.3 g

Termination

Available termination suffix

CN, CNR	radial tabs
2 PF, 3 PF, 3 PF RP, 4 PF	radial pins
CNA	axial leads
FL Other configurations upon request	flying leads

- ^[1] Dependent upon current drain, temperature, cut-off and cell orientation.
- ¹²¹ Under 100mÅ / 0.1 second pulses, drained every 2 minutes at + 20 °C during 24 hours, from undischarged cells with 10 μA base current, yield voltage readings above 3.0 V after initial stabilisation. 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 or for high pulse currents. Consult Saft.
- ⁽³⁾ Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.
- [4] For more severe conditions, consult Saft.



LS 14250 dimensions



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)

Voltage plateau versus current and temperature (at mid-discharge)







a company of

Saft

26, quai Charles Pasqua 92300 Levallois-Perret France Tel.: +33 1 49 93 19 18 Fax: +33 1 49 93 19 64 www.saftbatteries.com

Saft America, Inc

313 Crescent Street Valdese, NC 28690 USA Tel.: +1 (828) 874 41 11 Fax: +1 (828) 879 39 81 www.saftbatteries.com

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