# LS 14500 Primary Li-SOCl<sub>2</sub> cell

### 3.6 V AA size bobbin cell high energy density

Saft's LS 14500 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 (1122 Wh/l and 520 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, compatible with a 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.
- Manufactured in France, China, UK.

#### Designed to meet all major quality, safety and environmental standards.

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

#### Typical applications

- Utility Metering.
- Internet of Things.
- Tracking systems.
- Alarms and security.
- Connected sensors.
- Medical devices.



Operating temperature range [v] .....

Storage temperatures (recommended) [vi]	Storage	temperatures	(recommended) [VI]
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Physical characteristics <sup>[ii]</sup>	
Diameter (max)	14.62 mm (0.575 in)
Height (max)	50.28 mm (1.98 in)
Typical weight	17 g (0.6 oz)
Li metal content	approx. 0.7 g
Termination suffix	

Radial tabs
Radial pins
Axial leads
Flying leads

#### Other configurations upon request

[i] Typical values relative to cells stored up to one year at + 30 °C max.

[ii] Sleeved cell.

- [iii] Dependent upon current drain, temperature, cut-off and cell orientation.
- [iv] Under 250 mA / 0.1 second pulses, drained every 2 minutes at + 20 °C from undischarged cells during 24 h, 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.
- [v] Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.

[vi] For more severe conditions, consult Saft.



2.6 Ah

3.67 V

3.6 V

50 mA

-60 °C / +85 °C (-76 °F / +185 °F)

+30 °C (+86 °F) max



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## LS 14500



#### 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).







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