# LS 14500

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

### High energy density 3.6 V AA-size bobbin cell

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 560 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 long operating life (less than 1% after 1 year of storage at + 20 °C)
- 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 + 40 °C)
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001, Saft World Class continuous program

#### Typical applications

- Utility Metering
- Internet of Things
- Tracking systems
- Alarms and security
- Medical devices
- Professional electronics



Electrical characteristics	
(Typical values relative to cells stored up to one year at + 30 °C max)	
Nominal capacity (under 2 mA, + 20 °C, 2.0 V cut-off)[1]	2.6 Ah
Open circuit voltage (at + 20 °C)	3.67 V
Nominal voltage (under 0.2 mA, + 20 °C)	3.6 V
Nominal energy	9.36 Wh
Pulse capability (2)	Up to 250 mA
Maximum recommended continuous current	50 mA

Operating conditions		
Operating temperature range (3)	-60 °C /	+ 85 °C (- 76 °F / + 185 °F)
Storage temperatures	Recommended (4)	+ 30 °C (+ 86 °F) max

Physical characteristics	
Diameter (max)	14.55 mm (0.57 in)
Height (max)	50.3 mm (1.98 in)
Typical weight	17 g (0.6 oz)
Li metal content	approx. 0.7 g

TOTTIMATION		
Available termination suffix		
	CN, CNR	radial tabs
	2 PF, 3 PF, 3 PF RP, 4 PF	radial pins
	CNA	axial leads
	FL	flving leads

<sup>[1]</sup> Dependent upon current drain, temperature, cut-off and cell orientation.

Under 250mA/0.1 second pulses, drained every 2 minutes at + 20 °C from undischarged cells with 10  $\mu$ A base current, yield voltage readings above 3.0V 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.

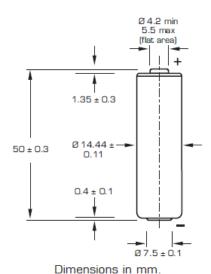
Other configurations upon request

- (3) Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.
- [4] For more severe conditions, consult Saft.

Termination



#### LS 14500 dimensions

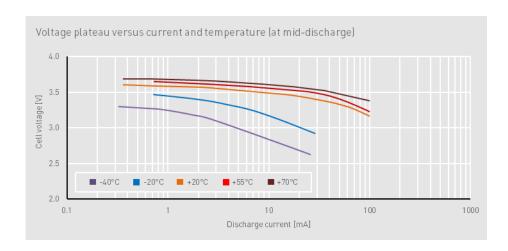


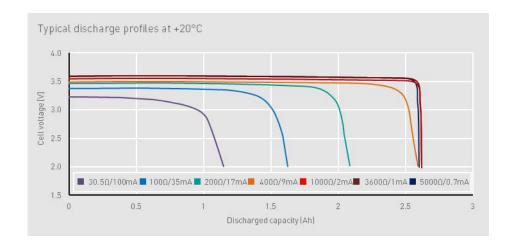
#### Storage

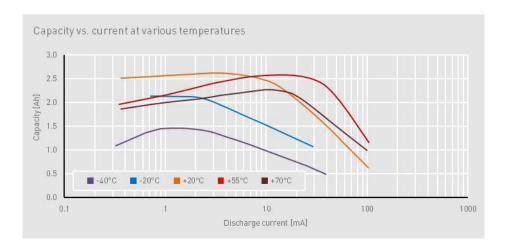
 The storage area should be clean, cool (preferably not exceeding + 30 °C), dry and ventilated

#### 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)









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