LS 17500

Primary Li-SOCl₂ cell

3.6 V lithium thionyl chloride A-size bobbin cell

Saft's LS 17500 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 (1139 Wh/l and 592 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
- Non restricted for transport
- 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 (T3 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
- Alarms and security
- Medical devices
- Tracking systems
- Professional electronics



Electrical characteristics	
(Typical values relative to cells stored up to one year at + 30 °C max)	
Nominal capacity (at 3 mA, + 20 °C, 2.0 V cut-off) (1)	3.6 Ah
Open circuit voltage (at + 20 °C)	3.67 V
Nominal voltage (at 0.3 mA, + 20 °C)	3.6 V
Nominal energy	12.96 Wh
Pulse capacity (2)	up to 250 mA
Maximum recommended continuous current	100 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)	17.13 mm (0.67 in)
Height (max)	50.9 mm (2.00 in)
Typical weight	21.9 g (0.8 oz)
Li metal content	approx 0.9 g

Termination

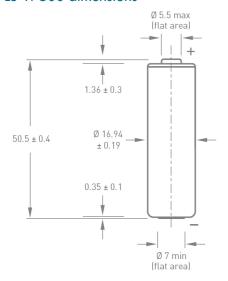
Available termination suffix

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

- $^{\mbox{\scriptsize [1]}}$ Dependent upon current drain, temperature, cut-off and cell orientation.
- Under 0.1 second pulses, drained every 2 minutes at + 20 °C from undischarged cells with 10 μ 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.
- (3) Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.
- [4] For more severe conditions, consult Saft.



LS 17500 dimensions



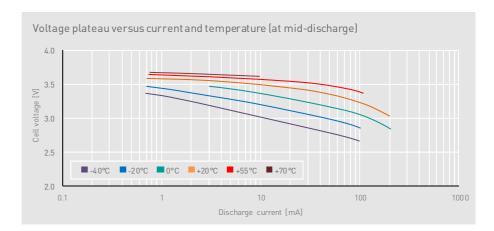
Dimensions in mm

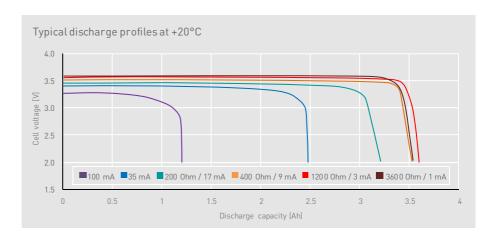
Storage

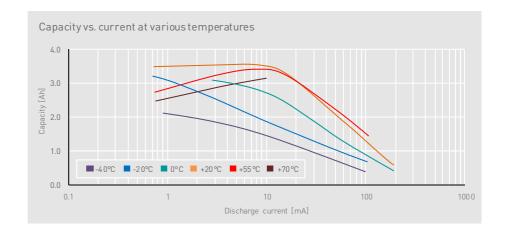
■ The storage area should be clean, cool (preferably not exceeding + 30 °C), dry and ventilated

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 cell versions instead)









Saft

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Doc N° 31029-2-0710 Edition: June 2015

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