LS 17500

Primary Li-SOCl$_2$ cell

High energy density 3.6 V 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 589 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-to-metal seal
- Stainless steel can
- Non-flammable electrolyte
- RoHS and REACH compliance
- Manufactured in France, China

Designed to meet all major quality, safety and environment 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 Excellence System, continuous evaluation program
- CE: P/N: 04811V

Typical Applications

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

Electrical characteristics[1]	
Nominal capacity (under 3 mA, +20°C, 2.0 V cut-off)[3]	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 capability[4]	Up to 250 mA
Maximum recommended continuous current[7]	100 mA
For battery sizing, consult Saft	
Operating conditions	
Operating temperature range[5]	-60°C / +85°C (-76°F/ +185°F)
Storage temperatures (max recommended)[6]	+30°C (+86°F)
Physical characteristics[2]	
Diameter (max)	17.16 mm (0.67 in)
Height (max)	50.77 mm (1.99 in)
Typical weight	22 g (0.77 oz)
Li metal content	approx. 0.9 g
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 request	

[1]Typical values relative to cells stored up to one year at + 30°C max.
[2]Sleeved cell.
[3]Dependent upon current drain, temperature, cut-off and cell orientation.
[4]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.
[5]Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.
[6]For more severe conditions, consult Saft.
[7]If above this value, please consult Saft.

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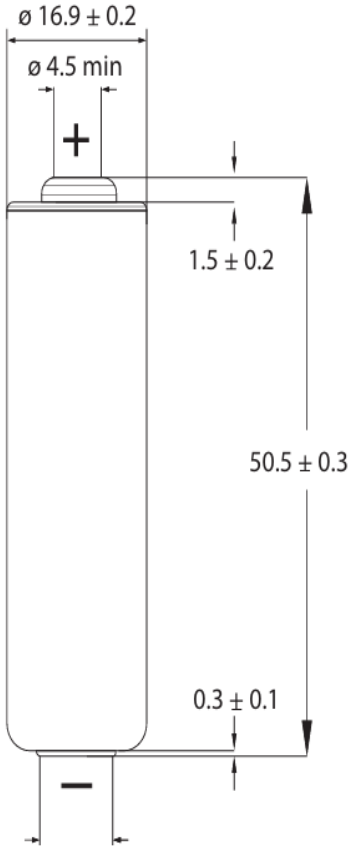
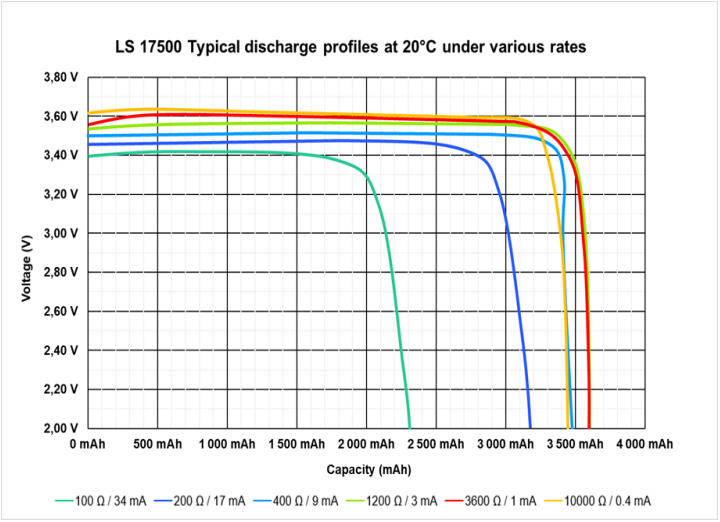
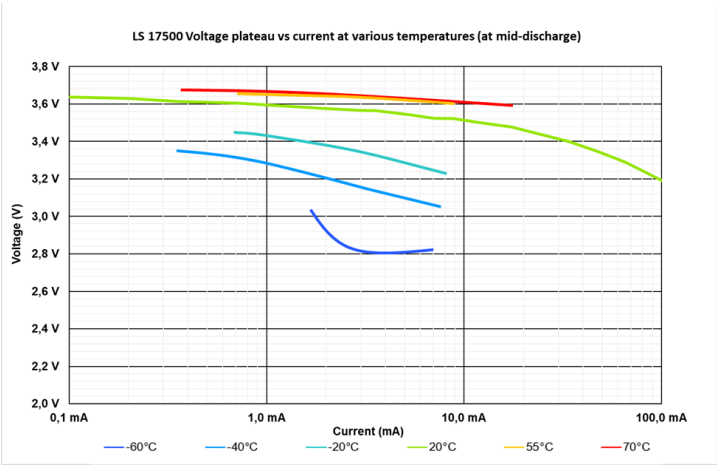
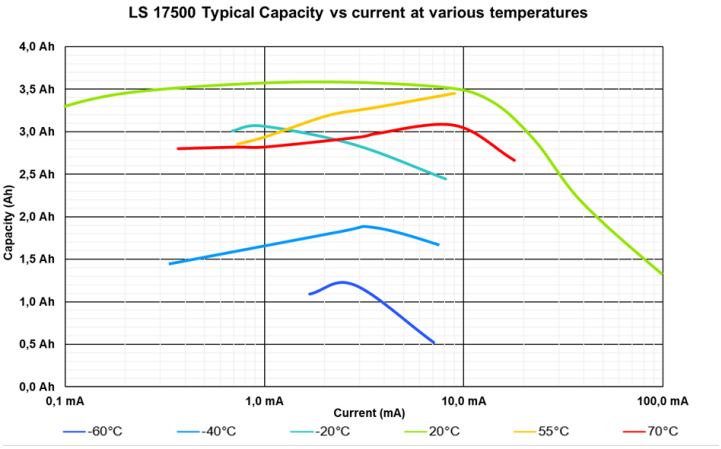


Dimensions in mm of cells made in France







The curves presented are based on experimental averages and do not necessarily reflect the minimum values that may be observed, particularly when the discharge regime exceeds the nominal conditions specific to each temperature.

Storage

- The storage area should be clean, cool (preferably 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).
- Do not mix new and used cells or cells from different origins.
- Mind the polarities of the cell.

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