

LS 17500 Primary Li-SOCI, 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-tometal seal
- Stainless steel can
- · Non-flammable electrolyte
- · RoHS and REACH compliance
- Manufactured in France, China, UK

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

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	100 mA
For battery sizing, consult Saft	
Operating conditions	
Operating temperature range ⁵	-60°C / +85°C (-76°C / +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

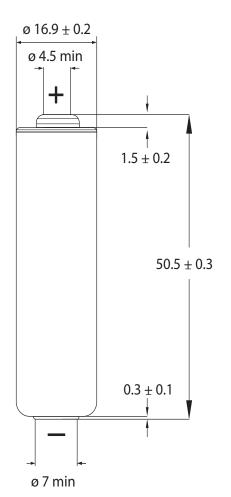
¹Typical values relative to cells stored up to one year at + 30°C max. ²Sleeved cell.

²Sleeved cell. ³Dependent upon current drain, temperature, cut-off and cell orientation. ⁴Under 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. ⁶Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.

6For more severe conditions, consult Saft.



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Dimensions in mm

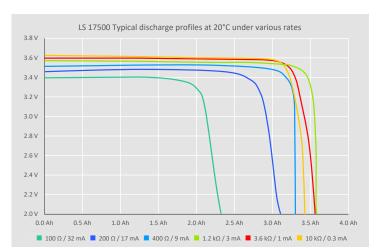
Storage

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

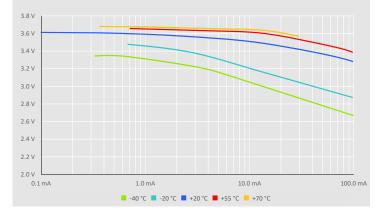
Warning

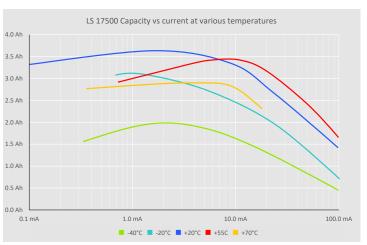
- Fire, explosion and severe burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).
- Do not mix new and used cells or cells from different origins.
- Mind the polarities of the cell.





LS 17500 Voltage plateau vs current and temperature (at mid-discharge)





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