

LSP 14500-J

Hybrid primary Li-SOCl₂ battery

3.6 V AA-size bobbin cell coupled with a 70F Lithium-ion capacitor (LIC)

Saft's LSP 14500-J battery is ideally suited for long-life applications (typically from 5 to 10 years), featuring low base currents and periodic high current pulses up to 1.5 A.

Benefits

- High pulse capability
- High voltage response, stable even after long period without activity
- Wide operating temperature range (-25°C / +70°C)
- Low self-discharge, compatible with a long operating life (less than 1.5% after 1 year at +20°C)
- Superior resistance to corrosion

Key features

- Battery made of Saft's LS14500 AA-size bobbin Li-SOCl₂ cells coupled with a 70 F (Lithium-ion capacitor)
- Restricted for transport (class9)
- Made in UE

Designed to meet all major quality, safety and environment standards

- Safety: UL 1642, IEC 60086-4 for lithium cells and UL810A for LIC
- RoHS and Reach compliance
- 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 characteristics¹

Nominal capacity (under 2 mA, +20°C, 2.0 V cut-off) ²	2.6 Ah
Open circuit voltage (at +20°C)	3.67 V
Nominal voltage (at 0.2 mA, + 20°C)	3.6 V
Nominal energy	9.36 Wh
Typical Pulse capability ³	Up to 1.5 A
Maximum recommended continuous current ⁴	50 mA

Operating conditions

Operating temperature range	-25°C / +70°C (-13°F/ +158°F)
Storage temperatures (max recommended) ⁵	+30°C (+86°F)

Physical characteristics

Length (max)	25.7 mm (1.02 in)
Width (max)	15.2 mm (0.6 in)
Height (max)	52.7 mm (2.04 in)
Typical weight	22.3 g (0.79 oz)
Terminals ⁶	Flying leads with optional connectors
Li metal content	Approx. 0.7 g

References

Saft Part number	60451V
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¹Typical values relative to cells stored up to one year at + 30°C max.

²Dependent upon current drain, temperature, cut-off and cell orientation.

³Typical pulse capability to 2.8 V at +20°C from fresh battery

The voltage readings may vary according to:

- The pulse characteristics such as intensity, duration and frequency
- The environment's temperature
- The battery previous history

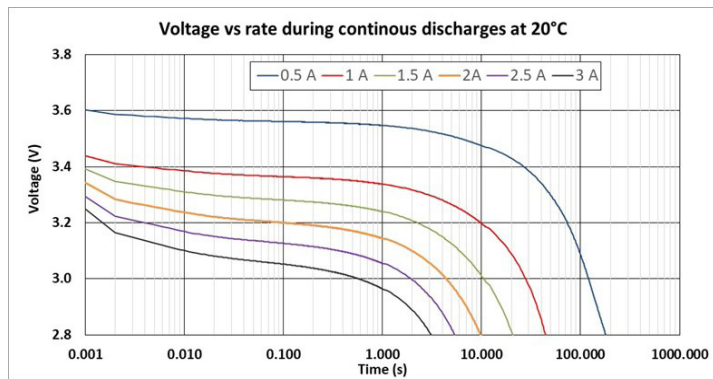
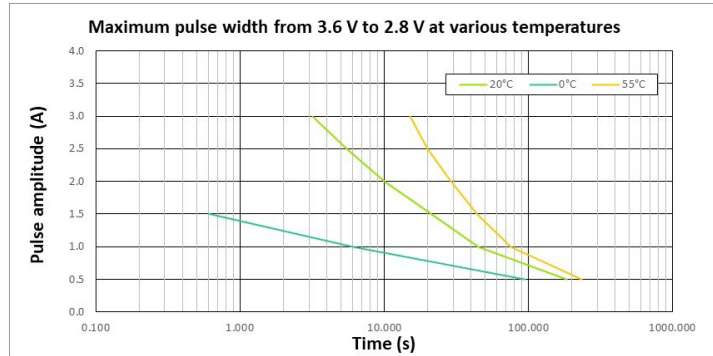
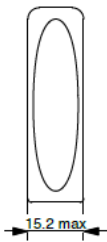
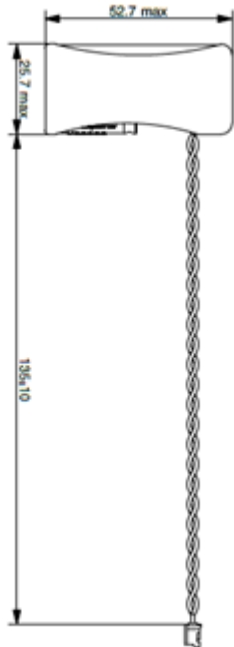
⁴Higher currents are possible, consult Saft.

⁵For more severe conditions, consult Saft.

⁶For other configurations, please consult Saft.

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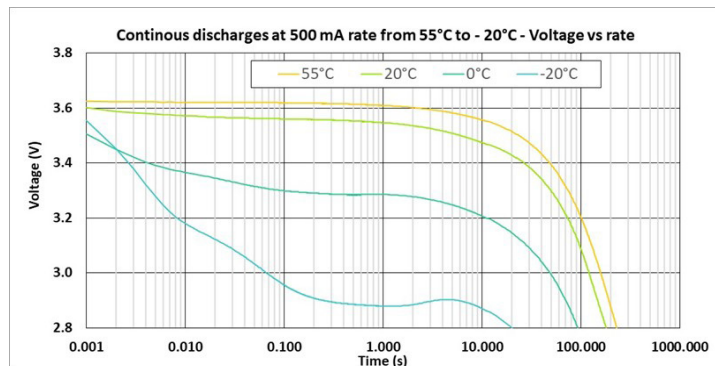
Dimensions in mm

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.



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