LSP 33600-J

Hybrid primary Li-SOCl$_2$ battery

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

Saft's LSP 33600-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 LS33600 D-size bobbin Li-SOCl$_2$ 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 characteristics[1]	
Nominal capacity (under 5 mA, +20°C, 2.0 V cut-off)[2]	17 Ah
Open circuit voltage (at +20°C)	3.67 V
Nominal voltage (at 0.7 mA, + 20°C)	3.6 V
Nominal energy	61.2 Wh
Typical Pulse capability[3]	Up to 1.5 A
Maximum recommended continuous current[4]	250 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)	44.2 mm (1.76 in)
Width (max)	33.7 mm (1.37 in)
Height (max)	62.7 mm (2.47 in)
Typical weight	92.8 g (3.27 oz)
Terminals [6]	Flying leads with optional connectors
Li metal content	Approx. 4.5 g
References	
Saft Part number	60454Y

[1]Typical values relative to cells stored up to one year at + 30°C max.
[2]Dependent upon current drain, temperature, cut-off and cell orientation.
[3]Typical 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

[4]Higher currents are possible, consult Saft.
[5]For more servere conditions, consult Saft.
[6]For other configurations, please consult Saft.

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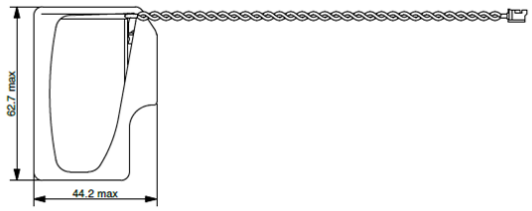
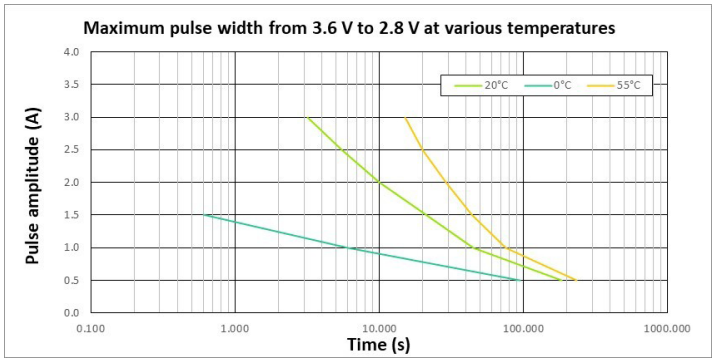
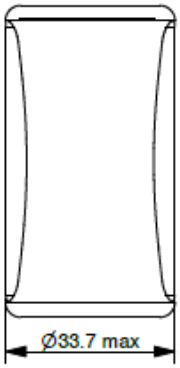
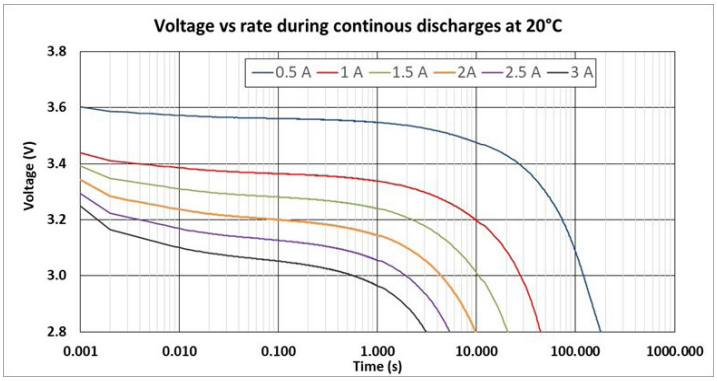








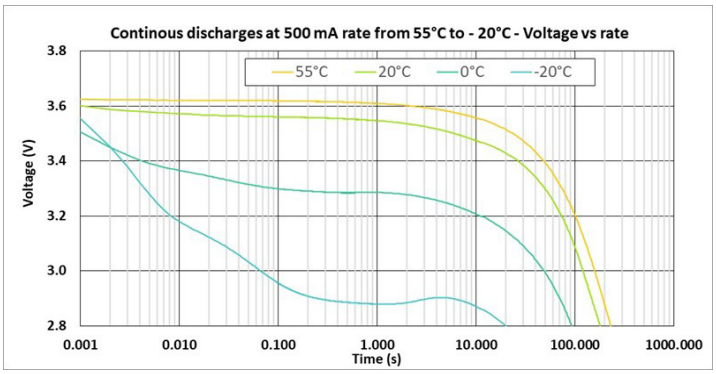
Dimensions in mm

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.



26, quai Charles Pasqua
92300 Levallois-Perret - France
www.saft.com

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R.C.S. Nanterre 481 480 465

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