LSH 14

Primary Li-SOCl$_2$ cell

High power 3.6 V C-size spiral cell

Saft's LSH 14 cell is ideally suited for high power and long operating lifetime requiring stable voltage under high discharge rates.



Benefits

- High drain/pulse capability
- High capacity and high energy (802 Wh/l and 409 Wh/kg)
- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C/85°C)
- Easy integration in compact system
- Low self-discharge rate (less than 3 % after 1 year of storage at + 20°C)

Key features

- Spiral design
- Stainless steel can
- Hermetic glass-to-metal sealing
- Non-flammable electrolyte
- Built-in safety vent
- Finish with 5 A fuse
- RoHS and REACH compliance
- Made in France

Designed to meet all major quality, safety and environment standards

- Safety: UL 1642 and IEC 60086-4
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001, Saft Excellence System, continuous program
- CE: P/N: 03680K

Typical Applications

- Radio communication and other military applications
- Alarms and security systems
- Beacons and emergency location transmitters
- Tracking devices
- Metering systems
- Automotive telematics
- Pipeline inspection
- Connected devices

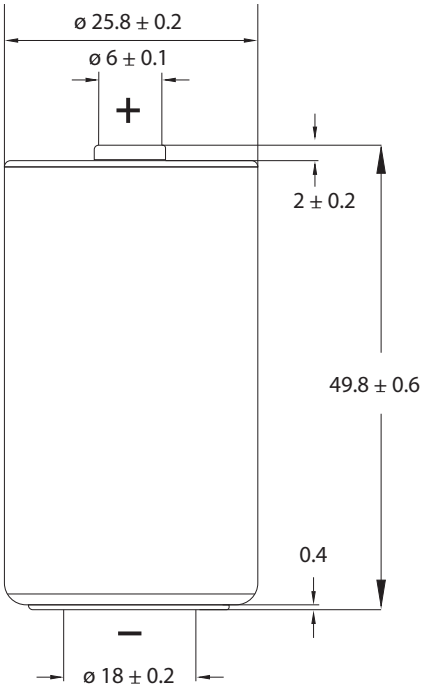
NATO Stock Number
6135 12 306 4125

Electrical characteristics[1]	
Nominal capacity (at 15 mA, + 20°C, 2.0 V cut-off)[3]	5.8 Ah
Open circuit voltage (at +20°C)	3.67 V
Nominal voltage (under 1 mA, + 20°C)	3.6 V
Nominal energy	20.88 Wh
Pulse capability[4]	Up to 2000 mA
Maximum recommended continuous current[7]	1300 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)	26.0 mm (1.02 in)
Height (max)	50.4 mm (1.98 in)
Typical weight	51 g (1.8 oz)
Li metal content	approx. 1.8 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	

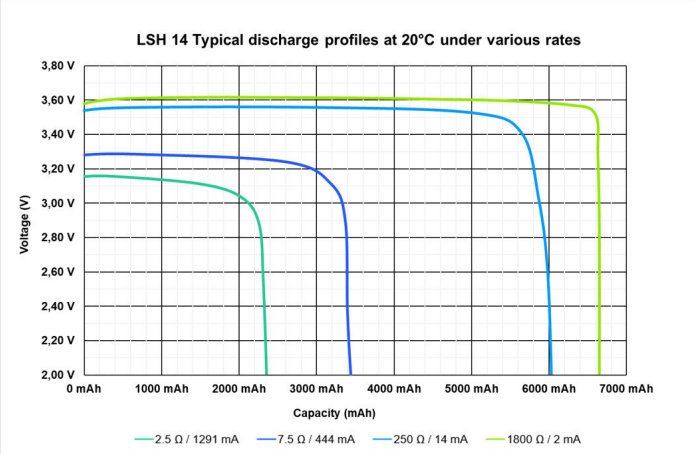
[1]Typical values relative to cells stored up to one year at + 30°C max.
[2]Sleeved cell.
[3]Dependent upon current drain, temperature, cut-off and cell orientation. Typical values relative to cells stored for one year or less at +30°C max.
[4]Under 2 A / 0.1 second pulses, drained every 2 minutes at + 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]To maintain cell heating within safe limits. Battery packs may imply lower level of maximum current and may request specific thermal protection. If above this value, please consult Saft.

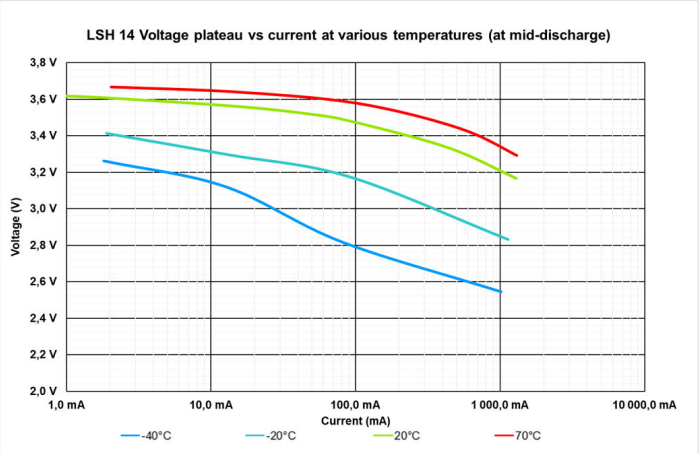
LSH 14

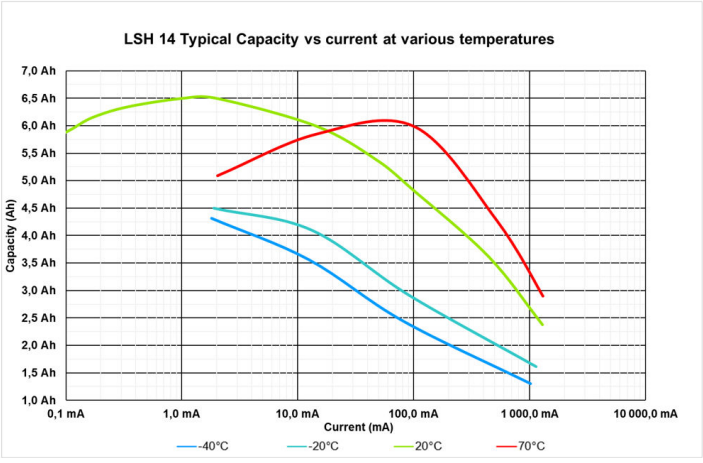
Primary Li-SOCl$_2$ cell



Dimensions in mm







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 remove the cells from their original packing before use.
- Do not store the cells in bulk to avoid accidental short circuiting.
- 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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