



Lithium-thionyl chloride (Li-SOCl₂) - LSH cell range

Non rechargeable battery



[Technical characteristics](#)

The Saft LSH cylindrical primary lithium cells are based on Lithium-Thionyl chloride (Li-SOCl₂) chemistry and feature high surface area spiral electrodes for maximum current capability.

They are designed for applications requiring continuous currents in the 0.1-1.8 A range, with superimposed pulses as high as 4 A.

Construction features

- spiral electrodes
- stainless steel container
- hermetic and sturdy glass-to-metal sealing
- built-in safety vents
- individual cells with 5.5 A non-resettable fuse
- available as individual batteries (size 1/3 C to D; with or without tabs) or multi-cell battery packs

Download literature

- [Data sheet](#)
- [Market brochures](#)
- [Selector guide](#)
- [Transport certificates](#)
- [MSDS](#)

Stockcheck

Click [here](#) to check this product's inventory (North america only)

Main applications

- utility metering
- automated meter reading
- alarms and security wireless devices
- mobile asset tracking
- GPS
- emergency location transmitters beacons (ELTs, EPIRBs)
- professional electronics
- military radiocommunication
- sonobuoys
- oil exploration
- automotive telematics
- telemetry

Benefits

- High operating voltage, stable during most of the application lifetime
- Good pulse capability
- Wide operating temperature range (-60°C to +70°C), +120°C for some cell versions
- Good resistance to passivation
- Non-flammable (and non-pressurized at ambient temperature), inorganic (but corrosive) electrolyte
- Less than 3% capacity loss per year, during storage at ambient temperature before use
- Performance independent from cell orientation
- Up to 25 years of mass production experience
- Compliant with the European directive RoHS
- Good safety records

Download literature

Data sheet

LSH 14	
LSH 14 "light"	
LSH 20	
LSH 20-150	
LSH 26180	

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Technical characteristics

3.67 V open circuit voltage
 Operating voltage (depending on conditions) typically above 3 V
 Underwriters Laboratories (UL) Component Recognition (File number MH 12609)
 Compliance with IEC 60086-4

	LSH 26180	LSH 14	LSH 14 "light"	LSH 20	LSH 20-150
Cell type construction	1/3 C	C	C	D	D
Open Circuit Voltage	3.67 V	3.67 V	3.67 V	3.67 V	3.67 V
Nominal Voltage	3.6 V	3.6 V	3.6 V	3.6 V	3.6 V
Nominal capacity (drain)	1.2 Ah (10 mA)	5.8 Ah (15 mA)	3.6 Ah (15 mA)	13.0 Ah (15 mA)	14.0 Ah (300 mA)
Max. recom. Cont. Current	0.4 A	1.3 A	1.3 A	1.8 A	Consult Saft
Operating temp. range	-60/+85°C *	-60/+85°C *	-60/+85°C *	-60/+85°C *	-40/+150°C
Outside diameter max	26.2 mm	26.0 mm	26.0 mm	33.4 mm	32.05 mm
Length max	18.6 mm	50.4 mm	50.4 mm	61.6 mm	61.7 mm
Weight	24 g	51 g	51 g	100 g	104.5 g
Transport	Non-restricted	Restricted (Class 9)	Non-restricted	Restricted (Class 9)	Restricted (Class 9)

Individual cells fitted with non-resettable 5 Amp fuse protection
 * cells leakproof up to 120°C.

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