Primary lithium battery LSH 14

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High power C-size spiral cell

Benefits

- High voltage response, stable during most of the lifetime of the application
- High drain/pulse capability
- 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

- Stainless steel container
- Hermetic glass-to-metal sealing
- Built-in safety vent
- Finish with 5 A fuse
- Non-flammable electrolyte
- Underwriters Laboratories (UL) **Component Recognition** (File Number MH 12609)
- Compliant with IEC 60086-4
- Restricted for transport (Class 9)

Main applications

- Radiocommunication and other military applications
- Alarms and security systems
- Beacons and emergency location transmitters
- GPS
- Metering systems
- Sonobuoys
- Automotive telematics
- Pipeline inspection

NATO stock number 6135 12 306 4125

Cell size references Electrical characteristics

(typical values relative	to cells stored for one year or less at + 30°C max.)	
Nominal capacity (at 15 mA + 20°C 2.0 according to current o	5.8 Ah	
Open circuit voltage	(at + 20°C)	3.67 V
Nominal voltage	(at 1mA + 20°C)	3.6 V
undischarged cells wit 3.0 V. The readings n temperature, and the may be recommended Maximum recommend (to maintain cell heatii	ally up to 2000 mA and pulses, drained every 2 mn at + 20°C from th 10 μA base current, yield voltage readings above may vary according to the pulse characteristics, the cell's previous history. Fitting the cell with a capacito of in severe conditions. Consult Saft) Hed continuous current and within safe limits. Battery packs may imply lower ent and may request specific thermal protection.	or 1300 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°F) max
Operating temperature range (Operation at extreme T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)		-60°C/+85°C (-76°F/+185°F)
Physical characte	ristics	
Diameter <i>(max)</i>		26.0 mm (1.02 in)

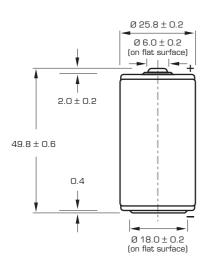
Diameter (max)	26.0 mm (1.02 in)
Height (max)	50.4 mm (1.98 in)
Typical weight	51 g (1.8 oz)
Li metal content	approx. 1.7 g
Available termination suffix CN, CNR 3PF, 3 PF RP CNA (AX) FL	radial tabs radial pins axial leads flying leadsetc.

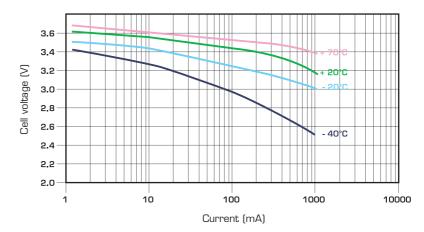




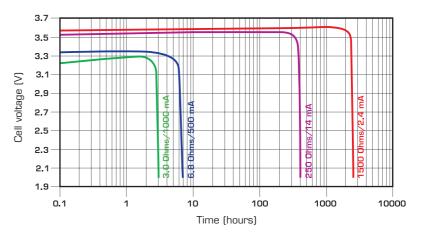
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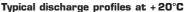
LSH 14

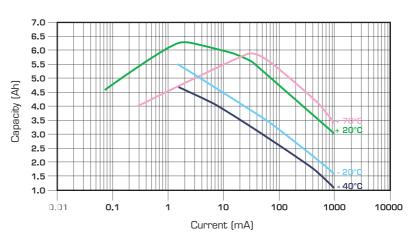




Voltage plateau versus Current and Temperature (at mid-discharge)







Restored Capacity versus Current and Temperature (2.0 V cut-off)

Saft

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Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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Produced by Arthur Associates



Dimensions in mm.

Storage

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

Warning

- Fire, explosion and 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).