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. according to current	5.8 Ah	
Open circuit voltage	(at + 20°C)	3.67 V
Nominal voltage	(at 1mA + 20°C)	3.6 V
undischarged cells wi 3.0 V. The readings r temperature, and the	ally up to 2000 mA nd 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 capacit d in severe conditions. Consult Saft)	or
Maximum recommended continuous current (to maintain cell heating within safe limits. Battery packs may imply lower level of maximum current and may request specific thermal protection. Consult Saft)		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)		2	26.0 mm (1.02 in)	
Height <i>(max)</i>		Ę	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	radial tabs		
	3PF, 3 PF RP	radial pins		
	CNA (AX)	axial leads		
	FL	flying leadsetc.		





UM2 - R14 - C

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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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).