Primary lithium battery LSH 14 "light"

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



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)
- Non-restricted for transport

Key features

- Stainless steel container
- Hermetic glass-to-metal sealing
- Built-in safety vent
- Finish with 5 A fuse
- Non-flammable electrolyte

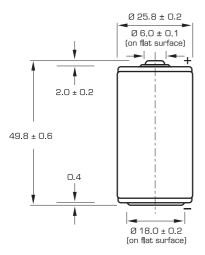
Main applications

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

Cell size refere	nces		UM2 - R14 - C
Electrical charact	eristics		
(typical values relative	to cells stored for one	year or less at +30°C max.)	
Nominal capacity (at 15 mA + 20° C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)			3.6 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 of the temperature, and	nd pulses, drained every th 10 μΑ base current, may vary according to ti	yield voltage readings above he pulse characteristics, ory. Fitting the cell with a	
(to maintain cell heatii		attery packs may imply lower ecific thermal protection.	1300 mA
Storage	(recommended) (for more severe con	ditions, 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 (max)			26.0 mm (1.02 in)
Height <i>(max)</i>			50.4 mm (1.98 in)
Typical weight			51 g (1.8 oz)
Li metal content			below 1 g
Available termination s	suffix CN, CNR 3 PF, 3 PF RP CNA (AX) FL	radial tabs radial pins axial leads flying leadsetc.	



LSH 14 "light"



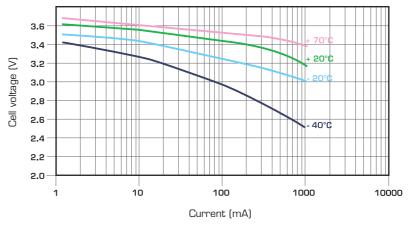
Dimensions in mm.

Storage

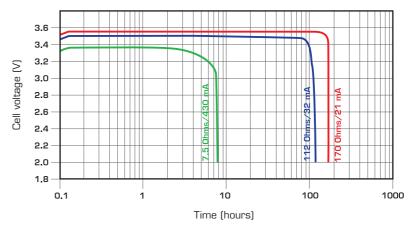
 The storage area should be clean, cool (preferably not exceeding + 30°C), dry and ventilated.

Warning

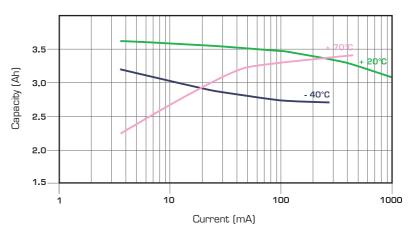
- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).



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



Typical discharge profiles at +20°C



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

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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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