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 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 2.1 according to current	3.6 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 the temperature, and	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, I the cell's previous history. Fitting the cell with a ommended in severe conditions. Consult Saft)	
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 temperatur (Operation at extreme lower voltage reading:	-60°C/+85°C (-76°F/+185°F)	

Physical characteristics

FI

Diameter <i>(max)</i>	26.0 mm (1.02 in)		
Height (max)	50.4 mm (1.98 in)		
Typical weight	51 g (1.8 oz)		
Li metal content	below 1 g		
Available termination suffix			
CN, CNR	radial tabs		
3 PF, 3 PF	RP radial pins		
CNA (AX)	axial leads		

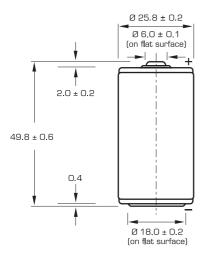
flying leads ...etc.

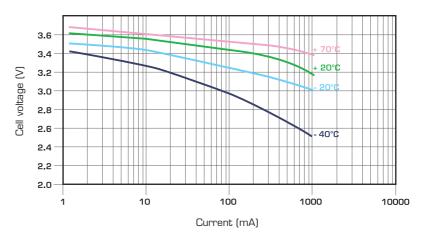




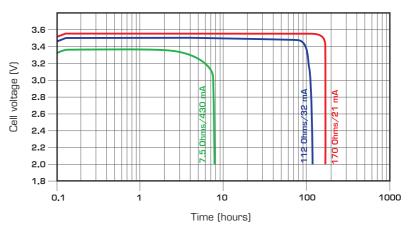
UM2 - R14 - C

LSH 14 "light"



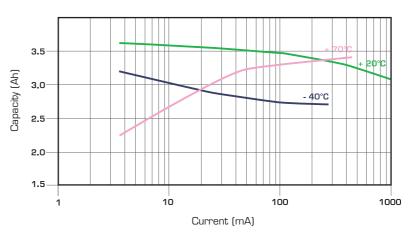


Voltage plateau versus Current and Temperature (at mid-discharge)



Dimensions in mm.

Typical discharge profiles at +20°C



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

Doc. Nº 31046-2-1006

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.

Published by the Communications Department.

Photo credit: Saft

Société anonyme au capital de 31 944 000 \in RCS Bobigny B 383 703 873

Produced by Arthur Associates



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).