# Primary lithium batteries **LSH 14**

3.6V Primary lithium-thionyl chloride (Li-SOCl<sub>2</sub>) High power C-size spiral cell

For high drain/high pulses applications requesting superior voltage response and operating life in -60°C/+85°C environments.



#### **Key features**

- High and stable operating voltage
- Superior drain capability
- Low self-discharge rate (less than 3% after 1 year of storage at + 20°C)
- 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)
- 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
- Micropipettes

etc...

NATO stock number 6135 12 306 4125

Cell size references	UM2 - R14 - C

#### **Electrical characteristics**

(typical values relative to cells stored for one year or less at + 30°C max.) 5.5 Ah (at 15 mA + 20°C 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).

Open circuit voltage	(at + 20°C)	3.67V
Nominal voltage	(at 1mA +20°C)	3.6V

Pulse capability: Typically up to 2000 mA (2000 mA/0.1 second pulses, drained every 2 mn at + 20°C from undischarged cells with 10 μA base current, yield voltage readings above 3.0V. The readings may vary according to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult Saft)

	nmended continuous current I heating within safe limits)	1300 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°F) max
Operating temperature range (Operation above ambient 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)

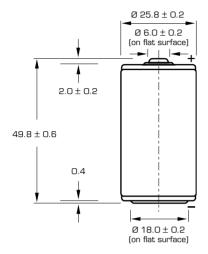
#### Physical characteristics

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		

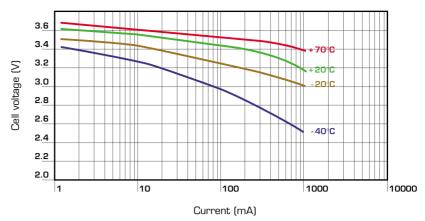
CN, CNR radial tabs radial pins 3PF 3 PF RP CNA (AX) axial leads flying leads ...etc.



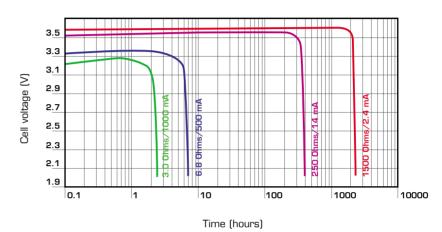
## **LSH 14**



Dimensions in mm.



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



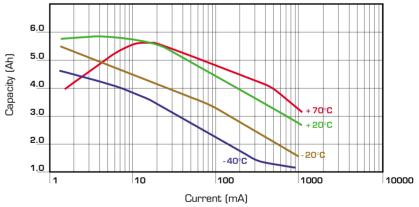
Typical discharge profiles at +20°C

## **Storage**

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

## **Warning**

- Fire, explosion and severe 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.



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

## Saft

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