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

Cell size referen	ices	UM2 - R14 - C
Electrical characteristics		
(typical values relative t	to cells stored for one year or less at + 30°C max.,	1
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)		5.8 Ah
Open circuit voltage	(at + 20°C)	3.67 V
Nominal voltage	(at 1mA + 20°C)	3.6 V
undischarged cells with 3.0 V. The readings matemperature, and the control of the	lly up to 2000 mA d pulses, drained every 2 mn at + 20°C from n 10 µA base current, yield voltage readings above ay vary according to the pulse characteristics, the cell's previous history. Fitting the cell with a capacit 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)

NATO stock number 6135 12 306 4125

Physical characteristics

Available termination suffix

CN, CNR

CNA (AX)

3PF, 3 PF RP

Diameter (max)

Height (max)

Typical weight

Li metal content



radial tabs

radial pins

axial leads

flying leads ...etc.

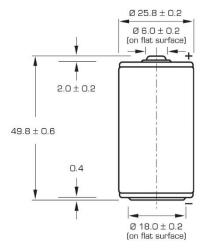
26.0 mm (1.02 in)

50.4 mm (1.98 in)

51 g (1.8 oz)

approx. 1.7 g

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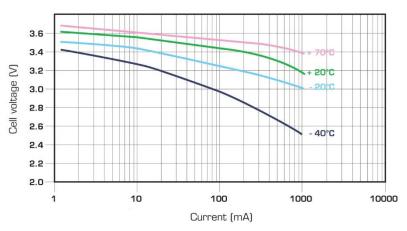
Dimensions in mm.

Storage

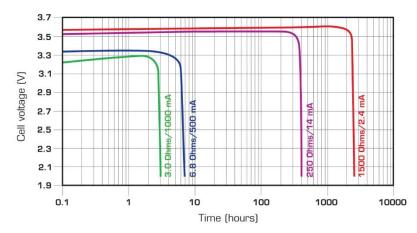
 The storage area should be clean, cool (preferably not exceeding + 30°C), dry and ventilated.

Warning

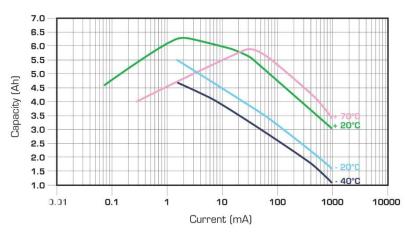
- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).



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)

