Primary lithium battery LSH 14

3.6 V Primary lithium-thionyl chloride (Li-SOCI₂) 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 refer	ences	UM2 - R14 - C
Electrical charac	teristics	
(typical values relativ	e 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 w 3.0 V. The readings temperature, and the	ond pulses, drained every 2 mn at + 20°C from with 10 µA base current, yield voltage readings above may vary according to the pulse characteristics, the e cell's previous history. Fitting the cell with a capacit ad in severe conditions. Consult Saft)	or
(to maintain cell hear	nded continuous current ting within safe limits. Battery packs may imply lower rent and may request specific thermal protection.	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 charact	eristics	
Diameter (max)		26.0 mm (1.02 in)

NATO stock number 6135 12 306 4125 Height (max)

Typical weight

Li metal content

Available termination suffix

CN, CNR

CNA (AX)

FL

3PF, 3 PF RP



50.4 mm (1.98 in)

51 g (1.8 oz)

approx. 1.7 g

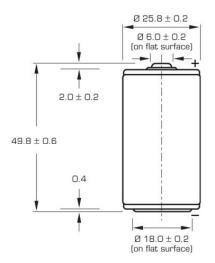
radial tabs

radial pins

axial leads

flying leads ...etc.

LSH 14



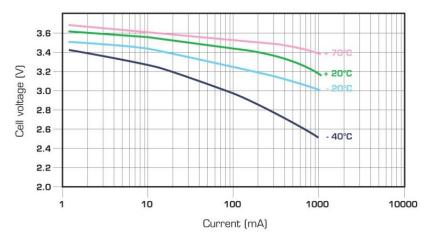
Dimensions in mm.

Storage

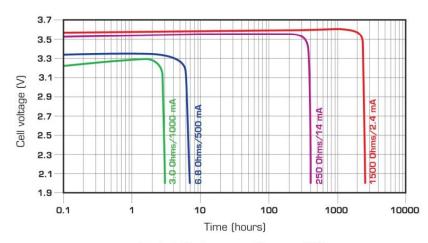
 The storage area should be clean, cool (preferably not exceeding + 30°C), dry and ventilated.

Warning

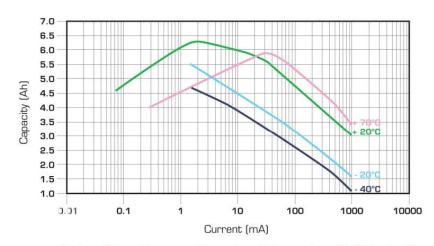
- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).



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)

Doc. Nº 31013-2-0607

For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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