Primary lithium battery LSH 20

3.6 V Primary lithium-thionyl chloride (Li-SOCl₂) High power D-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 into compact systems
- 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)
- 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
- Tracking systems
- GSM communication

NATO stock number 6135 14 440 1213

Cell size references

Electrical characteristics

(typical values relative	to cells stored for one year or less at + 30°C max.)	
Nominal capacity	13.0 Ah	
	O V cut off. The capacity restored by the cell varies drain, temperature and cut off)	
Open circuit voltage	(at + 20°C)	3.67 V
Nominal voltage	(at 2 mA + 20°C)	3.6 V
undischarged cells wit 3.0 V. The readings in temperature, and the	ally up to 4000 mA nd pulses, drained every 2 mn at + 20°C from th 10 μA base current, yield voltage readings above nay vary according to the pulse characteristics, the cell's previous history. Fitting the cell with a capacito d 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)		1800 mA
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°F) max
Operating temperature range		-60°C/+85°C
(Depration above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Operation with current continuously above 1 A may restrict upper T range. Consult Saft)		(-76°F∕+185°F)

Physical characteristics

Diameter <i>(max)</i>	33.4 mm (1.32 in)
Height (max)	61.6 mm (2.42 in)
Typical weight	100 g (3.5 oz)
Li metal content	approx. 3.8 g
Available termination suffix	
CN, CNR	radial tabs
CNA (AX)	axial leads
FI	flying leads etc

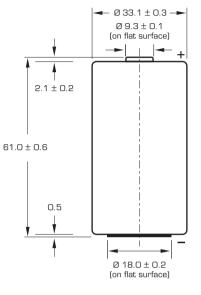


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SAFT LSH 20 0Rl 3.6V Li-SOCI2

UM1 - R20 - D

LSH 20



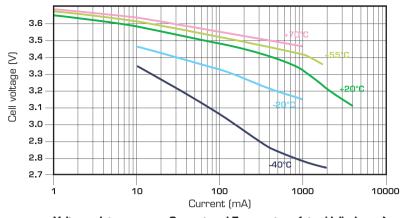
Dimensions in mm.

Storage

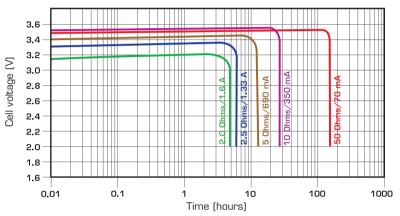
 The storage area should be clean, cool (preferably not exceeding + 30°C), dry and ventilated.

Warning

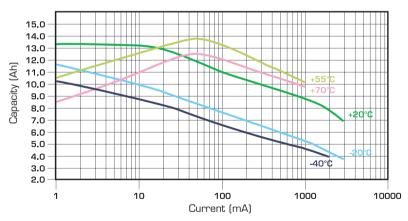
- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 100°C (212°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).



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



Typical discharge profiles at +20°C





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