

LSH 20

3.6 V Primary lithium - thionyl chloride (Li-SOCl₂) High Drain Spiral D-size cell



For applications with continuous currents up to 1800 mA, possibly combined with pulsing and exposure to extreme temperatures.

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)

Main applications

- Radiocommunication and other military applications
- Alarms and security systems
- Beacons and emergency location transmitters
- GPS
- Metering systems
- Sonobuoys
- ... etc.

NATO stock number
6135 14 440 1213

Cell size reference

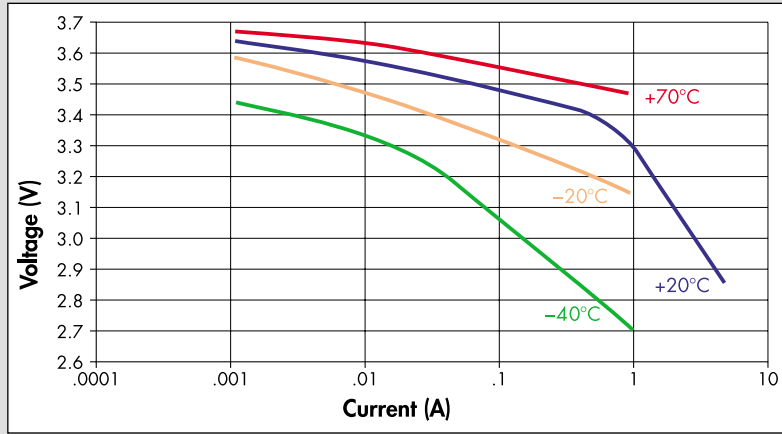
R20 - D

Electrical characteristics

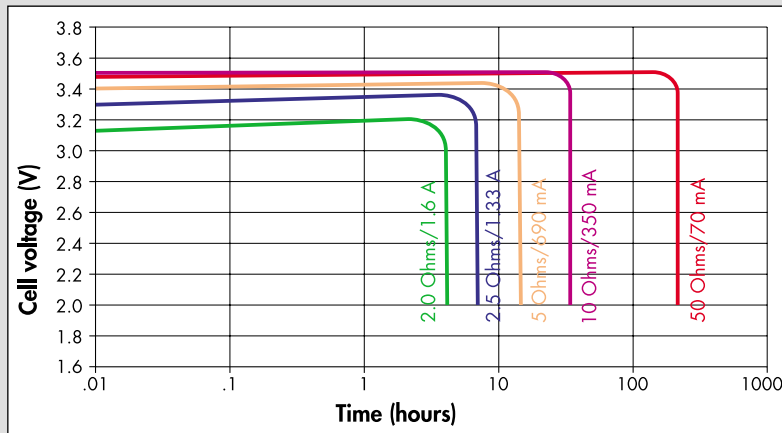
(typical values for cells stored for one year or less)

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).	13 Ah
Open circuit voltage (at +20°C)	3.67 V
Nominal voltage	3.6 V
Maximum recommended continuous current (at +20°C and 0 V cut off, in order to maintain cell heating within safe limits. For other conditions, consult Saft).	1800 mA
Pulse capability : varies according to pulse characteristics (frequency, duration), temperature, cell history (storage conditions prior to usage) and the application's acceptable minimum voltage. Consult Saft.	
Storage (recommended) (possible without leakage)	+30°C max -60/+100°C
Operating temperature range (Operation 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).	-60/+85°C
Physical characteristics	
Diameter (max)	33.3 mm (1.31")
Height (max)	61.6 mm (2.42")
Typical weight	100 g
Available termination suffix	CN, CNR, (STS) CNA (AX) FL radial tabs axial leads flying leads ...etc.

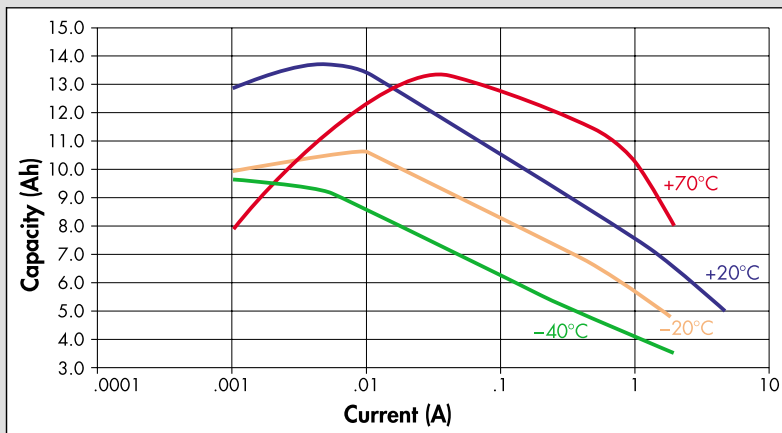
Voltage plateau versus Current and Temperature (at mid-discharge)



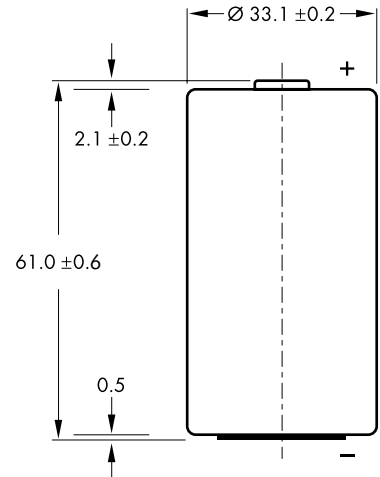
Discharge profiles at +20°C



Capacity versus Current and Temperature (2.0 V cut off)



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dimensions in mm



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