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

Cell size references
UM1 – R20 – D

Electrical characteristics (typical values relative to cells stored for one year or less at +30°C max.)
- Nominal capacity: 13.0 Ah
- Open circuit voltage: 3.67 V
- Nominal voltage: 3.6 V
- Pulse capability: Typically up to 4000 mA

Storage (recommended) + 30°C (+86°F) max
(for more severe conditions, consult Saft)

Operating temperature range
- 60°C/+85°C (-76°F/+185°F)
- 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)

Physical characteristics
- Diameter (max): 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
- FL flying leads ...etc.

NATO stock number
6135 14 440 1213

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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).

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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc Nº 31048-2.
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