Primary lithium batteries LS 33600LM

3.6V Primary lithium-thionyl chloride (Li-SOCl₂) High energy D-size bobbin cell with low magnetic signature

For magnetism-sensitive applications requesting good voltage response and operating life in - 60°C/+ 85°C environments.



17.0 Ah

250 mA

Key features

- High and stable operating voltage
- Low self-discharge rate (less than 1% after 1 year of storage at + 20°C)
- Stainless steel construction
- Hermetic glass-to-metal sealing
- Built-in safety vent
- Non-flammable electrolyte
- Restricted for transport (Class 9)
- Typical magnetic signatures: 200 nT (2 mGauss) at 6 mm 10 nT (0.1 mGauss) at 127 mm 3 nT (0.03 mGauss) at 300 mm

Main applications

- Seismic surveying
- Oceanographic instrumentation
- Scientific equipment

etc...

Optional upon request

- Specific cell terminations
- Multi-cell battery packs

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 (at 5 mA + $20^{\circ}C$ 2.0V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off).

Open circuit voltage (at + 20°C) 3.67V (at 0.7mA + 20°C) 3.6V Nominal voltage

Pulse capability: Typically up to 400 mA (400 mA/0.1 second pulses, drained every 2 mn at + 20°C from undischarged cells with 10 μA base current, yield voltage readings above 3.0V. The readings may vary according Fitting the cell with a capacitor may be recommended in severe conditions.

to the pulse characteristics, the temperature, and the cell's previous histor y. Consult Saft) Continuous current permitting 50% of the nominal capacity

(Higher currents possible, consult Saft)			
Storage	(recommended) (for more severe conditions, consult Saft)	+ 30°C (+ 86°F) max	
Operating temp	erature range	- 60°C/+ 85°C	
• ,	e ambient T may lead to reduced capacity and eadings at the beginning of pulses. Consult Saft)	(- 76°F/+ 185°F)	

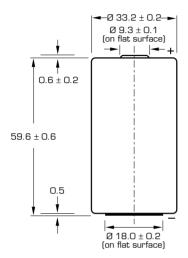
Physical characteristics

to be achieved at + 20°C with 2.0V cut off.

Diameter (max)	33.4 mm (1.32 in)
Height (max)	60.2 mm (2.37 in)
Typical weight	90 g (3.2 oz)
Li metal content	approx. 4.5 g



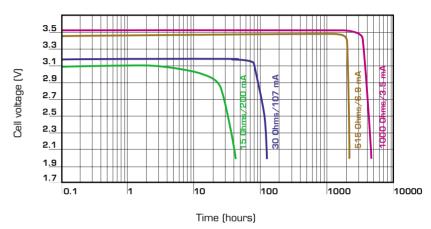
LS 33600LM



Dimensions in mm.

3.5 3<u>.4</u> 3.3 Cell voltage (V) 3.2 3.1 3.0 2.9 2.8 2.7 2.6 2.5 0.1 100 1000 Current (mA)

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



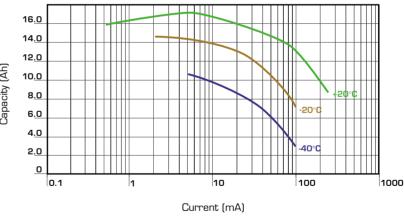
Typical discharge profiles at +20°C

Storage

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

Warning

- Fire, explosion and severe 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.



Restored Capacity versus Current and Temperature (2.0V cut off)

Saft

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