# Primary lithium batteries LS 33600LM

3.6V Primary lithium-thionyl chloride (Li-SOCI<sub>2</sub>) 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.



# **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
- Buoys
- Scientific equipment

etc...

Storage

## Optional upon request

- Specific cell terminations
- Multi-cell battery packs

Cell size references		UM1 - R20 - D
Electrical characteristics		
(typical values relative to cell	s stored for one year or less at + 30°	°C max.]
Nominal capacity (at 5 mA +20°C 2.0V cut o according to current drain, t	ff. The capacity restored by the cell vi emperature and cut off).	17.0 Ah aries
Open circuit voltage (at +	20°C)	3.67V
Nominal voltage (at O	.7mA + 20°C)	3.6V
drained every 2 mn at + 20° current, yield voltage reading to the pulse characteristics,	to 400 mA (400 mA/0.1 second pui C from undischarged cells with 10 µA is above 3.0V. The readings may vary the temperature, and the cell's previous for may be recommended in severe co	A base v according ous history.

(for more severe conditions, consult Saft)

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

(recommended)

(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)

(Higher currents possible, consult Saft)

Operating temperature range

Physical characteristics

Diameter (max)

Li metal content

Height (max)
Typical weight



250 mA

+ 30°C (+ 86°F) max

- 60°C/+ 85°C

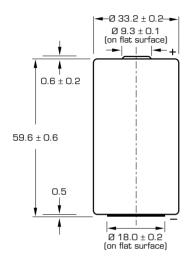
(-76°F/+185°F)

33.4 mm (1.32 in) 60.2 mm (2.37 in)

90 g (3.2 oz)

approx. 4.5 g

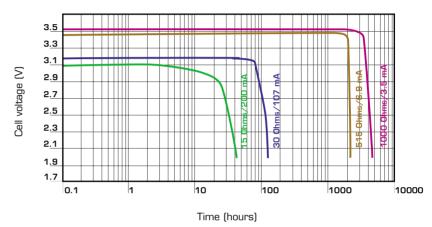
# LS 33600LM



Dimensions in mm.

# 3.6 3.5 3.4 3.3 3.2 3.1 3.0 2.9 2.8 2.7 2.6 2.5 0.1 1 100 1000 1000

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



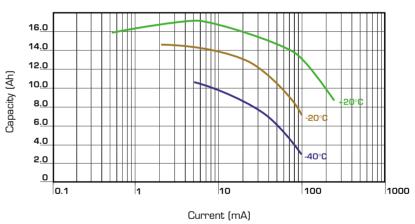
Typical discharge profiles at +20°C

# 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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