# **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.

# Re 3.6V li-socl

UM1 - R20 - D

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
- Buoys
- Scientific equipment

etc...

#### **Optional upon request**

- Specific cell terminations
- Multi-cell battery packs

Electrical characteristics			
(typical values relative	to cells stored for one year or less at + 30°C max	<i>(.</i> )	
	V cut off. The capacity restored by the cell varies drain, temperature and cut off).	17.0 Ah	
Open circuit voltage	(at + 20°C)	3.67V	
Nominal voltage	(at 0.7mA + 20°C)	3.6V	
Pulse canability: Typic	ally up to 400 mA <i>(400 mA/0,1 second pulses</i> ,		

Pu тур 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 to the pulse characteristics, the temperature, and the cell's previous history. Fitting the cell with a capacitor may be recommended in severe conditions. Consult Saft)

Continuous current permitting 50% of the nominal capacity to be achieved at + 20°C with 2.0V cut off. (Higher currents possible, consult Saft)

Storage	(recommended)	+ 30°C (+ 86°F) max	
	(for more severe conditions, consult Saft)		
Operating temperature range		- 60°C/+ 85°C	
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)		(- 76°F/+ 185°F)	

#### **Physical characteristics**

**Cell size references** 

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



# LS 33600LM

0.6 ± 0.2

0.5

4

59.6 ± 0.6

-Ø 33.2 ± 0.2--

Ø 9.3 ± 0.1

(on flat surface)

Ø 18.0 ± 0.2

(on flat surface)





Typical discharge profiles at +20°C

# Storage

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

Dimensions in mm.

# 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.





### Saft

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