LS 33600LM
Primary Li-SOCl₂ cell

Low magnetic signature 3.6 V D-size bobbin cell

Saft’s LS 33600LM cell is ideally suited for long-term applications (typically from 5 to 20+ years), requiring very low magnetic signatures.

Benefits
- High capacity and high energy (1185 Wh/l and 680 Wh/kg)
- High voltage response, stable during most of the lifetime of the application
- Wide operating temperature range (-60°C / +85°C)
- Low self-discharge compatible with long operating life (less than 1% after 1 year of storage at +20°C)
- 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
- Superior resistance to corrosion
- Low magnetic signature

Key features
- Bobbin construction
- Well controlled passivation
- Hermetic construction with glass-to-metal seal
- Stainless steel components
- Non-flammable electrolyte
- RoHS and REACH compliance
- Made in France

Designed to meet all major quality, safety and environment standards
- Safety: UL 1642, IEC 60068-4
- ATEX: IECEx 60079-11 part 10.5 (Please consult Saft)
- Transport: UN 3090 and UN 3091
- Quality: ISO 9001, Saft World Class continuous program

Typical applications
- Seismic surveying
- Oceanographic instruments
- Buoys
- Scientific equipment

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<table>
<thead>
<tr>
<th>Electrical characteristics</th>
<th>(Typical values relative to cells stored up to one year at +30°C max)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity [at 5 mA, +20°C, 2.0 V cut-off]</td>
<td>17 Ah</td>
</tr>
<tr>
<td>Open circuit voltage [at +20°C]</td>
<td>3.67 V</td>
</tr>
<tr>
<td>Nominal voltage [at 0.7 mA, +20°C]</td>
<td>3.6 V</td>
</tr>
<tr>
<td>Nominal energy</td>
<td>61.2 Wh</td>
</tr>
<tr>
<td>Pulse capacity</td>
<td>up to 400 mA</td>
</tr>
<tr>
<td>Maximum recommended continuous current</td>
<td>250 mA</td>
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</tbody>
</table>

Operating conditions
- Operating temperature range: -60°C / +85°C (-76°F / +185°F)
- Storage temperatures: Recommended (+30°C [+86°F] max)

Physical characteristics
- Diameter (max): 33.4 mm (1.32 in)
- Height (max): 61.6 mm (2.42 in)
- Typical weight: 90 g (3.2 oz)
- Li metal content: approx. 4.5 g

Termination
- Upon request to Saft
  - Specific cell terminations
  - Multiple cells battery packs

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(1) Dependent upon current drain, temperature, cut-off and cell orientation.
(2) Under 400 mA / 0.1 second pulses, drained every 2 minutes at +20°C from undischarged cells with 10 μA base current, yield voltage readings above 3.0V after initial stabilisation. 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 or for high pulse currents. Consult Saft.
(3) Operation above ambient temperature may lead to reduced capacity and lower voltage readings. Consult Saft.
(4) For more severe conditions, consult Saft.
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)