LSP 17500-20F
Hybrid Primary Li-SOCl₂ battery

3.6 V A-size bobbin cell fitted with a 20F LIC

Saft’s LSP 17500-20F battery is ideally suited for long life applications (typically from 5 to 10 years), featuring low base currents and periodic high current pulses up to 1.5 A.

Benefits
- High pulse current capability
- High voltage response, stable even after long dormant periods
- Low self-discharge compatible with long operating life (less than 1.5% after 1 year of storage at +20 °C)
- Wide operating temperature range (-20°C to +70°C)
- Superior resistance to corrosion

Key features
- Battery made of Saft’s LS 17500 A-size bobbin Li-SOCl₂ cell fitted with a 20F LIC (Lithium Ion Capacitor) in parallel connection for pulse support
- Restricted for transport [class 9]
- Made in EU

Designed to meet all major quality, safety and environment standards
- Safety: UL 1642 (File MH 12609)
  IEC 60086-4 (for the Li-SOCl₂ cell)
- Transport: UN 3090, 3091 & 3499 for components (assembly under testing)
- Quality: ISO 9001, Saft World Class continuous program
- Environment: ISO 14001, RoHS and REACH compliant

Typical applications
- Smart Metering
- Internet of Things
- Tracking systems
- Environment monitoring

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**Electrical characteristics**

<table>
<thead>
<tr>
<th>Typical values related to batteries stored up to one year at +30 °C max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Typical capacity [at 3 mA, +20 °C, 2.0 V cut-off] [1]</td>
</tr>
<tr>
<td>Open circuit voltage</td>
</tr>
<tr>
<td>Nominal voltage [at 0.5 mA, + 20 °C]</td>
</tr>
<tr>
<td>Nominal energy</td>
</tr>
<tr>
<td>Typical pulse capability</td>
</tr>
</tbody>
</table>

**Operating conditions**

| Operating temperature range [2]                              | -20 °C / +70 °C |
| Storage temperatures                                         | +30 °C max. |

**Physical characteristics**

<table>
<thead>
<tr>
<th>Length (max)</th>
<th>Design example.</th>
<th>28 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (max)</td>
<td>For other configurations,</td>
<td>17.5 mm</td>
</tr>
<tr>
<td>Height (max)</td>
<td>please consult Saft</td>
<td>52.5 mm</td>
</tr>
<tr>
<td>Terminals (example)</td>
<td>Flying leads with optional connectors</td>
<td></td>
</tr>
<tr>
<td>Typical battery weight</td>
<td>28 g</td>
<td></td>
</tr>
<tr>
<td>Li metal content</td>
<td>approx. 1 g</td>
<td></td>
</tr>
</tbody>
</table>

**References**

| Saft part No. | 600885 |

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[1] Dependent upon current drain, temperature, cut-off and battery orientation.
[2] Typical pulse capability to 2.8V at +20 °C from fresh battery. The voltage readings may vary according to:
  - the pulse characteristics such as intensity, duration and frequency
  - the environment’s temperature
  - the battery’s previous history.
  Consult Saft for any other pulse conditions.
[3] Operation above or under ambient temperature may lead to reduced capacity and lower voltage readings. 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)