Primary lithium-thionyl chloride (Li-SOCl₂)  
**ER18505M**

**Electrical Characteristics**

Typical values relative to cells stored for one year or less at +25°C max.

<table>
<thead>
<tr>
<th>Electrical Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal Voltage</strong></td>
<td>3.6V</td>
</tr>
<tr>
<td><strong>Nominal Capacity</strong></td>
<td>3800mAh</td>
</tr>
<tr>
<td><strong>Max. Recommended Continuous Current</strong></td>
<td>600mA</td>
</tr>
<tr>
<td><strong>Max. Pulse Current</strong></td>
<td>1000mA</td>
</tr>
</tbody>
</table>

**Key Features**

- High and stable operating voltage
- Low self-discharge rate (less than 2% after 1 year of storage at +20°C)
- Wide operating temperature range (-55°C ~ +85°C) / (-67°F ~ +185°F)
- Stainless steel container and cap
- Hermetic glass-to-metal sealing
- RoHS compliant

**Main Applications**

- Radiocommunication and other military applications
- Alarms and security systems
- Beacons and emergency location transmitters
- GPS
- Metering systems
- Tracking systems
- GSM communication

**Diameter**  
Max. 18.5mm

**Height**  
Max. 51mm

**Typical Weight**  
Approx. 32g

**Li Metal Content**  
Approx. 0.9g

Note: Information above just for your reference, more details please contact Green Energy Battery Co., Ltd.
Performance

**Typical discharge characteristic at 23°C**

<table>
<thead>
<tr>
<th>Load Voltage/V</th>
<th>Time/hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.7</td>
<td>0.1</td>
</tr>
<tr>
<td>3.5</td>
<td>1</td>
</tr>
<tr>
<td>3.3</td>
<td>10</td>
</tr>
<tr>
<td>3.1</td>
<td>100</td>
</tr>
<tr>
<td>2.9</td>
<td>1000</td>
</tr>
<tr>
<td>2.7</td>
<td>10000</td>
</tr>
</tbody>
</table>

**Voltage vs Temperature**

- 5mA
- 50mA
- 100mA
- 400mA

**Capacity vs Current**

- 20°C
- 55°C
- 70°C
- -20°C
- -40°C

**Available Terminations**
- Tag1 (radial tabs)
- 2P, 3P, 3P-RP, 3P-S, 3P-S-RP (radial pins)
- AX (axial leads)
- Connector, Flying Leads...etc.

**Warnings**
- 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).
- Do not overdischarge, end voltage is 2.0V.

**Storage**
- The storage area should be clean, cool (preferably not exceeding +25°C), dry and ventilated.

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