Primary lithium battery
LM 17130

3 V Primary lithium-manganese dioxide (Li-MnO₂)
High power
⅓ A-size spiral cell

For applications requesting excellent voltage response and operating life in -40°C/+70°C environments.

Benefits
- High voltage response, stable during most of the lifetime of the application
- Minimum voltage delay after long dormant periods
- Competitive capacity at high current and low temperature
- Easy integration into compact systems
- Low self-discharge rate (less than 2% after 1 year of storage at +20°C)

Key features
- Ni plated steel container
- Hermetic seal construction
- Integrated safety vent
- Non-corrosive electrolyte
- Non-restricted for transport

Main applications
- Measuring equipment
- Industrial applications
- Professional electronics

### Cell size references

<table>
<thead>
<tr>
<th>⅓ A</th>
</tr>
</thead>
</table>

### Electrical characteristics

(typical values relative to cells stored for one year or less at +30°C max.)

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity</td>
<td>500 mAh</td>
</tr>
<tr>
<td>Open Circuit Voltage (at +20°C)</td>
<td>approx. 3.2 V</td>
</tr>
<tr>
<td>Nominal voltage (under 1 mA at +20°C)</td>
<td>3.0 V</td>
</tr>
<tr>
<td>Pulse capability</td>
<td>400 mA</td>
</tr>
<tr>
<td>Maximum recommended continuous current</td>
<td>300 mA</td>
</tr>
<tr>
<td>Storage (recommended)</td>
<td>+30°C (+86°F) max</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-40°C/+70°C (-40°F/+158°F)</td>
</tr>
</tbody>
</table>

### Physical characteristics

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (max)</td>
<td>16.7 mm (0.658 in)</td>
</tr>
<tr>
<td>Height (max)</td>
<td>16.33 mm (0.643 in)</td>
</tr>
<tr>
<td>Typical weight</td>
<td>8 g (0.28 oz)</td>
</tr>
<tr>
<td>Li metal content</td>
<td>approx. 0.2 g</td>
</tr>
<tr>
<td>Available termination suffix</td>
<td>CN, CNR radial tabs FL flying leads... etc.</td>
</tr>
</tbody>
</table>

(Other cell finishes available, consult Saft)
**Storage**
- Keep storage area clean, cool, dry and ventilated.

**Warning**
- Fire, explosion and burn hazard.
- Do not recharge, short circuit, crush, disassemble, heat above 70°C (158°F), incinerate, or expose contents to water.
- Do not solder directly to the cell (use tabbed cell versions instead).

---

**Saft**

**Specialty Battery Group**
12, rue Sadi Carnot  
93170 Bagneux - France  
Tel.:+33 (0)1 49 93 19 18  
Fax:+33 (0)1 49 93 19 89

313 Crescent Street  
Valdese, NC 28690 - USA  
Tel.:+1 (828) 874 4111  
Fax:+1 (828) 879 3981

[www.saftbatteries.com](http://www.saftbatteries.com)

---

*Typical discharge profiles under 20 mA versus temperature*

*Typical discharge profiles at +20°C*