Primary lithium batteries
G 36/2

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)
High drain capability
“Long A”-size spiral cell

Benefits
• High and stable discharge voltage
• High pulse capability
• Performance not affected by cell orientation
• Long storage possible before use
• Ability to withstand extreme temperature

Key features
• Low self-discharge rate
  (less than 3% after 1 year of storage at +20°C)
• Hermetic glass-to-metal sealing
• Built-in safety vent
  (at the negative end of the cell)
• Meets shock, vibration and other environmental requirements of military specifications
• Made in UK

Main applications
• Radiocommunications and other military applications
• Memory back-up
• Life jacket lights
• Professional electronics

Cell size reference
“Long A”

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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity</td>
<td>1.70 Ah</td>
</tr>
<tr>
<td>(at 0.08 A +20°C 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)</td>
<td></td>
</tr>
<tr>
<td>Open circuit voltage</td>
<td>3.0 V</td>
</tr>
<tr>
<td>(at +20°C)</td>
<td></td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>2.8 V</td>
</tr>
<tr>
<td>(at 0.1 A +20°C)</td>
<td></td>
</tr>
<tr>
<td>Continuous current permitting 50% of the nominal capacity to be achieved at +20°C with 2.0 V cut off.</td>
<td>1.5 A</td>
</tr>
<tr>
<td>Pulse capability</td>
<td>Typically up to 2.5 A.</td>
</tr>
<tr>
<td>(The voltage 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)</td>
<td></td>
</tr>
<tr>
<td>Storage (recommended)</td>
<td>+30°C (+86°F) max</td>
</tr>
<tr>
<td>(possible without leakage)</td>
<td>+55°C (+131°F) max</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-60°C/+70°C</td>
</tr>
<tr>
<td>(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)</td>
<td>-76°F/+158°F</td>
</tr>
</tbody>
</table>

Physical characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (max)</td>
<td>16.3 mm (0.64 in)</td>
</tr>
<tr>
<td>Height (max)</td>
<td>57.7 mm (2.27 in)</td>
</tr>
<tr>
<td>Typical weight</td>
<td>18 g (0.64 oz)</td>
</tr>
<tr>
<td>Li metal content</td>
<td>0.53 g</td>
</tr>
</tbody>
</table>

Standard cell comes with protruding positive end-cap. Finish with tabs available on request.
Handling precautions

- Cell is pressurised.
- Do not puncture, open or mutilate.
- Do not obstruct the safety vent mechanism.
- Do not short circuit or charge.
- Do not expose to fire or temperatures above +70°C (+158°F).

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For more details on primary lithium technologies please refer to Primary Lithium Batteries Selector Guide Doc N° 31048-2.

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