Primary lithium battery  
G 54/3

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)
High drain capability
5/4 C-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 2 % after 1 year of storage at +20°C)
- Hermetic glass-to-metal sealing
- Built-in safety vent
  (at the negative end of the cell)
- Restricted for transport (class 9)
- Meets shock, vibration and other environmental requirements of military specifications
- Made in UK

Main applications
- Radiocommunications and other military applications
- Beacons and Emergency Location Transmitters
- Sonobuoys
- Life jacket lights
- Professional electronics
- Missiles

Electrical characteristics

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity (at 0.2 A +20°C 2.0 V cut-off)</td>
<td>5.0 Ah</td>
</tr>
<tr>
<td>Open circuit voltage (at +20°C)</td>
<td>3.0 V</td>
</tr>
<tr>
<td>Nominal voltage (at 0.5 A +20°C)</td>
<td>2.8 V</td>
</tr>
<tr>
<td>Nominal energy</td>
<td>14 Wh</td>
</tr>
<tr>
<td>Maximum recommended continuous current</td>
<td>2.5 A</td>
</tr>
<tr>
<td>(to avoid over-heating)</td>
<td></td>
</tr>
<tr>
<td>Storage (recommended)</td>
<td>+30°C (+86°F) max</td>
</tr>
<tr>
<td>(possible without leakage)</td>
<td>+85°C (+185°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>25.6 mm (1.01 in)</td>
</tr>
<tr>
<td>Height (max)</td>
<td>60.2 mm (2.37 in)</td>
</tr>
<tr>
<td>Typical weight</td>
<td>58 g (2.05 oz)</td>
</tr>
<tr>
<td>Li metal content</td>
<td>1.5 g</td>
</tr>
</tbody>
</table>

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

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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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