Primary lithium battery
G 52/3

3.0 V Primary lithium-sulfur dioxide (Li-SO2)
High drain capability
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
- Sonobuoys
- Life jacket lights
- Professional electronics
- Rescue devices

Cell size reference

<table>
<thead>
<tr>
<th>Benefit</th>
<th>R14 - C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Electrical characteristics</strong></td>
<td></td>
</tr>
<tr>
<td>(typical values relative to cells stored for one year or less at +30°C max.)</td>
<td></td>
</tr>
<tr>
<td>Nominal capacity</td>
<td>3.2 Ah</td>
</tr>
<tr>
<td>(at 1.0 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 (at 0.5 A +20°C)</td>
<td>2.8 V</td>
</tr>
<tr>
<td>Nominal energy (to avoid over-heating)</td>
<td>8.96 Wh</td>
</tr>
<tr>
<td>Maximum recommended continuous current (possible without leakage)</td>
<td>2.5 A</td>
</tr>
<tr>
<td>Pulse capability: Typically up to 5 A. (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>+65°C (+158°F) max</td>
</tr>
<tr>
<td>Operating temperature range (Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)</td>
<td>-60°C/-70°C (-76°F/-158°F)</td>
</tr>
<tr>
<td><strong>Physical characteristics</strong></td>
<td></td>
</tr>
<tr>
<td>Diameter (max)</td>
<td>25.6 mm (1.01 in)</td>
</tr>
<tr>
<td>Height (max)</td>
<td>49.5 mm (1.95 in)</td>
</tr>
<tr>
<td>Typical weight</td>
<td>47 g (1.6 oz)</td>
</tr>
<tr>
<td>Li metal content</td>
<td>1.2 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).

Voltage at mid-discharge versus Current and Temperature (2.0 V cut-off)

Typical discharge profiles at + 20°C

Restored Capacity versus Current and Temperature (2.0 V cut-off)

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