Primary lithium batteries
G 22/6

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)
High drain capability
DD-size spiral cell

Benefits
- High and stable discharge voltage
- Very 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
- Professional electronics

<table>
<thead>
<tr>
<th>Cell size reference</th>
<th>DD</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>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal capacity</td>
<td>16.5 Ah</td>
</tr>
<tr>
<td>(at 0.5 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 (at +20°C)</td>
<td>3.0 V</td>
</tr>
<tr>
<td>Nominal voltage (at 1.0 A +20°C)</td>
<td>2.8 V</td>
</tr>
<tr>
<td>Maximum recommended continuous current (to avoid overheating)</td>
<td>3 A</td>
</tr>
</tbody>
</table>

Pulse capability : Typically up to 10 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)

<table>
<thead>
<tr>
<th>Storage</th>
<th>+30°C (+86°F) max</th>
</tr>
</thead>
<tbody>
<tr>
<td>(recommended)</td>
<td>+85°C (+185°F) max</td>
</tr>
<tr>
<td>(possible without leakage)</td>
<td></td>
</tr>
</tbody>
</table>

Operating temperature range
(Operation above ambient T may lead to reduced capacity and lower voltage readings at the beginning of pulses. Consult Saft)

<table>
<thead>
<tr>
<th>Temperature range</th>
</tr>
</thead>
<tbody>
<tr>
<td>-60°C/+70°C</td>
</tr>
<tr>
<td>(-76°F/+158°F)</td>
</tr>
</tbody>
</table>

**Physical characteristics**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (max)</td>
<td>33.3 mm (1.31 in)</td>
</tr>
<tr>
<td>Height (max)</td>
<td>120.6 mm (4.75 in)</td>
</tr>
<tr>
<td>Typical weight</td>
<td>175 g (6.18 oz)</td>
</tr>
<tr>
<td>Li metal content</td>
<td>5.3 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).

Saft
Specialty Battery Group
12, rue Sadi Carnot
93170 Bagnolet - France
Tel. +33 (0)1 49 93 19 18
Fax +33 (0)1 49 93 19 69

River Drive, South Shields
Tyne and Wear, NE33 2TR - UK
Tel. +44 (0)191 456 14 51
Fax +44 (0)191 456 63 83

www.saftbatteries.com

Information in this document is subject to change without notice and becomes contractual only after written confirmation by Saft.

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

Published by the Communications Department.

Photo credit: Saft.

Société anonyme au capital de 31 944 000 €
RCS Bobigny B 383 703 873
Produced by Arthur Associates.