Primary lithium batteries
LO 30 SHX

3.0 V Primary lithium-sulfur dioxide (Li-SO₂)
Very high drain and pulse capability
“Thin” D-size spiral cell

Benefits
- High and stable discharge voltage
- Superior 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)
- Restricted for transport (class 9)
- UL Component Recognition
  (File Number MH 15076)
- Meets shock, vibration and other environmental requirements of military specifications
- Made in the USA

Main applications
- Radiocommunications and other military applications
- Beacons and Emergency Location Transmitters
- Sonobuoys

Cell size reference

<table>
<thead>
<tr>
<th>“Thin” D</th>
<th>“Thin” D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (max)</td>
<td>59.9 mm (2.36 in)</td>
</tr>
<tr>
<td>Diameter (max)</td>
<td>29.0 mm (1.14 in)</td>
</tr>
<tr>
<td>Typical weight</td>
<td>63 g (2.21 oz)</td>
</tr>
<tr>
<td>Li metal content</td>
<td>1.9 g</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>“Thin” D</th>
<th>“Thin” D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height (max)</td>
<td>29.1 mm (1.14 in)</td>
</tr>
<tr>
<td>Diameter (max)</td>
<td>62.5 mm (2.46 in)</td>
</tr>
</tbody>
</table>

Electrical characteristics

(typical values for cells stored for one year or less)
Nominal capacity (at 0.2 A +20°C, 2.0 V cut off. The capacity restored by the cell varies according to current drain, temperature and cut off)

- Open circuit voltage (at +20°C) 3.0 V
- Nominal voltage (at 0.6 A +21°C/+70°F) 2.8 V
- Maximum recommended continuous current (to avoid over-heating. Higher currents possible, consult Saft) 3 A

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)

Storage (recommended) (possible without leakage) +30°C (+86°F) max
-60°C/+85°C
(-76°F/+195°F)

Operating temperature range
(Short excursions up to +85°C possible at currents below 1 A)

-60°C/+70°C
(-76°F/+158°F)

Physical characteristics

<table>
<thead>
<tr>
<th>“Thin” D</th>
<th>“Thin” D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter (max)</td>
<td>29.0 mm (1.14 in)</td>
</tr>
<tr>
<td>Height (max)</td>
<td>62.5 mm (2.46 in)</td>
</tr>
<tr>
<td>Typical weight</td>
<td>63 g (2.21 oz)</td>
</tr>
<tr>
<td>Li metal content</td>
<td>1.9 g</td>
</tr>
</tbody>
</table>

Standard cell comes with resin potting in the topshell area and two radial 0.15 mm - thick nickel tabs

Different configurations 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

313, Crescent Street,
Valdese NC 28690 - USA
Tel +1 (828) 874 41 11
Fax +1 (828) 879 39 81

www.saftbatteries.com