Primary lithium battery system
BA 5380

6 V Primary lithium manganese dioxide (Li-MnO₂) battery

The battery consists of 2 LM 33550 cells connected in series.

Key Features
- A non-replaceable fuse is incorporated on the battery negative
- A normally closed thermal fuse (TCO) is incorporated in the battery. It is non-replaceable and non-resettable
- A blocking diode is incorporated to prevent charging
- A non-replaceable fuse is connected between the two cells for added safety
- A complete discharge device (CDD) with LED activation indicator is built into the battery. The CDD consists of a manually activated switch to connect a resistor for discharging the battery to 0 V
- Made in the U.S.A.

Typical applications
- AN/PSN-11 GPS
- AN/PSN-10 (V) GPS
- Chemical Agent Monitor

<table>
<thead>
<tr>
<th>Electrical characteristics</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Typical OCV</td>
<td>6.0 V</td>
</tr>
<tr>
<td>Nominal voltage (at 500 mA)</td>
<td>5.4 V</td>
</tr>
<tr>
<td>Cut-off</td>
<td>4.0 V</td>
</tr>
<tr>
<td>Typical capacity +21°C / +70°F (at 250 mA discharge current)</td>
<td>13 Ah</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-40°C to +71°C / -40°F to +160°F</td>
</tr>
<tr>
<td>Storage (Recommended max)</td>
<td>+35°C / +95°F</td>
</tr>
<tr>
<td>(Possible)</td>
<td>-40°C to +71°C / -40°F to +160°F</td>
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<table>
<thead>
<tr>
<th>Physical characteristics</th>
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<tbody>
<tr>
<td>Max weight</td>
<td>327 g / 11.5 oz</td>
</tr>
<tr>
<td>Weight of Li metal content</td>
<td>7.4 g / 0.26 oz</td>
</tr>
<tr>
<td>Max OD</td>
<td>35.51 mm / 1.398 in</td>
</tr>
<tr>
<td>Max height</td>
<td>128.5 mm / 5.059 in</td>
</tr>
<tr>
<td>Battery case</td>
<td>Plastic</td>
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</tbody>
</table>

References
- Reference specifications: MIL PRF 32271 or Saft standard specification
- Nato Stock Number: 6135-01-517-4954
**BA 5380**

BA 5380 dimensions

*All measurements in inches*

![Dimensions Diagram]

Electrical schematic

![Electrical Schematic]

**Voltage plateau versus current and temperature**

![Voltage Plateau Graph]

**Capacity versus discharge and temperature**

![Capacity Graph]

**Typical discharge curves at +21°C at various discharge currents**

![Discharge Curves Graph]

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**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
www.saftbatteries.com

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**Saft**

Specialty Battery Group
313 Crescent St.
Valdese, NC 28690 - USA
Tel.: +1 (828) 874 4111
Fax: +1 (828) 874 3981
www.saftbatteries.com

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