Saft’s SALLY 3s1p MP 174865 xlr battery is ideally suited for applications requiring high energy, long operating life under cycling conditions and offers excellent performance in temperature environments from –35°C to +60°C.

**Benefits**

- Excellent operating lifetime in calendar and cycling with a very stable internal resistance
- Long shelf life with extremely low capacity loss under storage
- Smaller environmental footprint than other technologies

**Key features**

- High energy density (371 Wh/l and 159 Wh/kg)
- Cycle life of 950 cycles at 100% DoD at C/2 discharge, C/ charge rate
- Maintenance free
- No memory effect
- Built to the OEM specification
- Manufactured in EU

**Designed to meet all major quality, safety and environmental standards**

- Safety at cell level UL 1642, IEC62133-2
- Transport: UN 3480, UN 3481
- Environmental: MIL-STD 810E
- Quality: ISO 9001, Saft World Class
- Environment: ISO 14001, RoHS and REACH compliant

**Typical applications**

- Handheld thermal imagers SOPHIE® and Mirabelle®
- Compatible with the AA86A battery
- Target acquisition systems

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**Electrical characteristics**

<table>
<thead>
<tr>
<th>Typical capacity (at C/5 rate, +25°C, 2.5V cut-off) (1)</th>
<th>5.3 Ah</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal voltage</td>
<td>10.95 V</td>
</tr>
<tr>
<td>Nominal energy</td>
<td>58.04 Wh</td>
</tr>
<tr>
<td>Recommended maximum discharge current (2)</td>
<td></td>
</tr>
<tr>
<td>Continuous</td>
<td>10 A (~2C rate)</td>
</tr>
<tr>
<td>Pulse</td>
<td>21 A (~4C rate)</td>
</tr>
</tbody>
</table>

**Physical characteristics [sleeved cell]**

<table>
<thead>
<tr>
<th>Length (max)</th>
<th>145.0 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (max)</td>
<td>62.6 mm</td>
</tr>
<tr>
<td>Height (max including terminals)</td>
<td>55.5 mm</td>
</tr>
<tr>
<td>Typical weight</td>
<td>~530 g</td>
</tr>
<tr>
<td>Nominal volume (including terminals)</td>
<td>0.49 l</td>
</tr>
<tr>
<td>IEC battery designation</td>
<td>3INP56/62/145</td>
</tr>
<tr>
<td>Saft internal designation</td>
<td>3s1p MP174865 Xlr XLSO</td>
</tr>
<tr>
<td>Saft part number / type reference</td>
<td>08670G GP 31468</td>
</tr>
</tbody>
</table>

**Operating conditions**

<table>
<thead>
<tr>
<th>Typical cut-off voltage</th>
<th>2.5 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charging method</td>
<td>Constant current/Constant voltage</td>
</tr>
<tr>
<td>Charging voltage</td>
<td>4.2 ± 0.05 V</td>
</tr>
<tr>
<td>Maximum continuous charge current (3)</td>
<td>5.0 A (~1C rate)</td>
</tr>
<tr>
<td>Operating temperatures (4)</td>
<td>Charge -30°C to +60°C, Discharge -35°C to +60°C</td>
</tr>
<tr>
<td>Storage &amp; transportation temperatures (4)</td>
<td>Recommended +10°C to +30°C, Allowable -40°C to +60°C</td>
</tr>
</tbody>
</table>

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(1) Can vary depending on temperature and discharge rate
(2) Can vary depending on temperatures. Consult Saft
(3) At beginning of life, 100% State-of-Charge. Can increase with temperature and during battery life.
(4) For optimised operation below 0°C and consult Saft
(5) Trade name of the Thales Group—mentioned only for the purpose of reference and application description.
Five segment fuel gauge
- Assess the battery state of charge while in storage or prior to transport
- Check your spare battery during or prior to use
- Make full use of available energy
- Operable with gloves

Battery-level features
- Saft provides complete battery system designs
- Integrating several levels of redundant safety features to prevent abuse conditions such as over-charge, over-discharge, and short circuits
- Incorporating electronics for performance and efficiency in charging, floating, discharging as well as cell balancing and temperature monitoring
- Battery protection controller at system level for larger batteries
- Communication for State-of-Charge and State-of-Health

Storage
- The storage area should be clean, cool (preferably not exceeding +30°C), dry and ventilated

Warning
- Do not crush, short-circuit, incinerate, dismantle, immerse in any liquid, or heat above +60°C
- Observe charging conditions
- Refer to our Li-ion Battery User manual for further information on the use and handling of Saft products.

Environmental requirement

<table>
<thead>
<tr>
<th>Condition</th>
<th>MIL-STD reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>High Temperature</td>
<td>MIL-STD 810E, 501.3 (+60°C)</td>
</tr>
<tr>
<td>Low Temperature</td>
<td>MIL-STD 810E, 502.3 (-20°C)</td>
</tr>
<tr>
<td>Vibration</td>
<td>MIL-STD 810C, 514.2 H</td>
</tr>
<tr>
<td>Shock</td>
<td>MIL-STD 810E, 516.4</td>
</tr>
<tr>
<td>Salt Fog</td>
<td>MIL-STD 810E, 509.3 I</td>
</tr>
<tr>
<td>Immersion</td>
<td>MIL-STD 810E, 512.3</td>
</tr>
<tr>
<td>NATO Stock Number</td>
<td>6140-14-557-9691</td>
</tr>
<tr>
<td>Saft’s Part Number</td>
<td>08670G</td>
</tr>
</tbody>
</table>