MILITARY 6T BATTERY

A123’s light-weight, long-lasting, high performance 6T batteries are engineered to meet the specific, demanding requirements of military vehicles. The 6T is designed as a drop-in lead acid replacement for engine start and silent watch applications. The 6T battery leverages the systems engineering and manufacturing utilized in the commercial production of A123’s 12V Engine Start Battery.

The 6T is available in **12V** and **24V models**.

### Primary Applications:

**SILENT WATCH**
- Provides long-duration usable energy for powering vehicle systems in an engine-off mode
- Communicates state of charge (SOC) and state of health (SOH) information for maximum battery utilization

**ENGINE START**
- Form fit to allow drop-in replacement for 6T lead acid batteries currently deployed in military vehicles
- Optimized 12V or 24V power net system for improved fuel economy (allows for vehicle to disable alternator under certain conditions)
- Greater usable energy enables more start cycles

**SOLDIER POWER**
- Man portable power solutions
- Unmanned aerial and underwater vehicles
- Unmanned ground systems and portable power

### 6T BATTERY SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>6T-12</th>
<th>6T-24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions</td>
<td>Nato 6T</td>
<td>Nato 6T</td>
</tr>
<tr>
<td>Weight</td>
<td>20 kg</td>
<td>20 kg</td>
</tr>
<tr>
<td>Capacity</td>
<td>114Ah at 1C, 120Ah at C/20</td>
<td>57Ah at 1C, 60Ah at C/20</td>
</tr>
<tr>
<td>Max Charge Capability</td>
<td>120A</td>
<td>60A</td>
</tr>
<tr>
<td>Nominal Voltage</td>
<td>13.2V</td>
<td>26.4V</td>
</tr>
<tr>
<td>Operating Temp</td>
<td>-30°C to +60°C</td>
<td>-30°C to +60°C</td>
</tr>
<tr>
<td>Storage Temp</td>
<td>-54°C to +71°C</td>
<td>-54°C to +71°C</td>
</tr>
</tbody>
</table>
Military 6T Battery

Key Features & Benefits:

**Longer Life**

Designed to deliver significantly longer cycle life than lead acid resulting in lower total cost of ownership.

**Greater Charge Acceptance Rate**

Rapid charge capable, no recovery period required after previous charge or discharge and significantly higher rate capability than lead acid.

**Lighter Weight**

Approximately 50% lighter than lead acid batteries of equivalent capacity.

**Intelligent Battery Management System**

On-board calculation of state of charge (SOC), state of health (SOH), diagnostics and precise current and voltage measurements.

**Excellent Safety**

A123’s Nanophosphate® chemistry provides excellent abuse tolerance and multiple layers of protection that are employed at the chemistry, cell and system level.

**Advanced Temperature Control**

Integrated battery heater for operation at temperatures below -30 °C (available in next-generation versions).

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