The TB17 Advanced Lithium-ion Battery uses the most sophisticated lithium-ion chemistry available, providing aviators with an unmatched advantage of power, safety, life and energy.

Ideal for the piston, turbine, and emergency power market, the TB17 starts the aircraft’s engine quickly and features superior energy density — NanoPhosphate® lithium-ion cells offer 3x the energy per kilogram, resulting in a battery that is 45% lighter than lead-acid or nickel-cadmium alternatives.

This advanced battery system is engineered to deliver an overall lower cost of ownership with a two-year maintenance schedule, efficient engine starts, extended useful life and intelligent battery status communication to the cockpit.

**Product features**

- **CAPACITY**: 17 amp-hour battery nominal at 23°C/73.4°F
- **WEIGHT**: 16 lbs.
- **TECHNOLOGY**: Advanced NanoPhosphate® lithium-ion cell chemistry
- **EFFICIENCY**: Higher voltage during engine start — Less wear, less maintenance and increased useful life
- **PERFORMANCE**: 7 engine starts in 7 minutes
- **ENERGY DENSITY**: Battery cells deliver 3x the energy per kilogram when compared to lead-acid and nickel-cadmium cells
- **INTERNAL HEATER**: Automatic internal heater
- **PROTECTION**: Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting
- **COMMUNICATION**: Battery status to the cockpit
- **MAINTENANCE**: Two-year maintenance interval; offers 50 – 90% savings on maintenance costs
- **DESIGNED AND MANUFACTURED**: Wichita, Kansas, USA
- **WARRANTY**: Two-year limited

**The NanoPhosphate® Advantage**

- **Power**: Superior power by weight or volume in a cost effective solution
- **Safety**: NanoPhosphate® is stable chemically, providing the foundation for safe systems
- **Life**: Excellent calendar and cycle life with consistent performance over extended use
- **Energy**: Higher usable energy means greater battery utilization and lower cost
Advanced Lithium-ion Battery

TB17

Manufactured by Mid-Continent Instrument Co., Inc.

Technical specifications

- **CAPACITY**: 17 amp-hour nominal at 23°C/73.4°F
- **CHARGE VOLTAGE**: 28 VDC nominal
- **OUTPUT VOLTAGE**: 26.4 VDC nominal
- **OUTPUT CURRENT**: 500A continuous, 840A max
- **TECHNOLOGY**: Advanced NanoPhosphate® lithium-ion cell chemistry
- **PROTECTION**: Overcharge, over-discharge, over-current, short circuit, over-temperature, under-temperature and charge current limiting
- **ENERGY DENSITY**: 64.4 Wh/kg
- **OPERATING TEMPERATURE**: -40°C to 70°C (-40°F to 158°F)
- **WEIGHT**: 16 lbs. (7.26 kg)
- **DIMENSIONS**: 7.22” L x 7.37” W x 6.01” H
- **CONFIGURATION**: 7P8S; 7 parallel cells x 8 series modules
- **MAINTENANCE**: Two-year maintenance interval; offers 50 – 90% savings on maintenance costs
- **CASE**: Anodized aluminum, blue
- **CERTIFICATION**: FAA TSO certified to C179a
- **ETSO** certified to C179a
- **RTCA DO-311 qualified
- **RTCA DO-160G qualified
- **UNDOT/IATA qualified

Product comparison

<table>
<thead>
<tr>
<th>Battery Technology</th>
<th>Voltage Output</th>
<th>Capacity (1C rate)</th>
<th>Weight</th>
<th>Maintenance</th>
<th>Useful Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>TB17</td>
<td></td>
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</tr>
<tr>
<td>Lithium-ion</td>
<td>26.4 VDC</td>
<td>17 amp-hour</td>
<td>16 lbs.</td>
<td>2 years</td>
<td>8 years (average)</td>
</tr>
<tr>
<td>Lead-acid</td>
<td>24 VDC</td>
<td>13.6 amp-hour</td>
<td>43 lbs.</td>
<td>Annual</td>
<td>2 – 4 years</td>
</tr>
<tr>
<td>Nickel-cadmium</td>
<td>24 VDC</td>
<td>17 amp-hour</td>
<td>38.5 lbs.</td>
<td>200 – 400 hours</td>
<td>5 – 10 years</td>
</tr>
</tbody>
</table>