PS-12180 12 Volt 18.0 AH
Rechargeable Sealed Lead Acid Battery

Features

- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, spill proof construction allows safe operation in any position
- Power/volume ratio yielding unrivaled energy density
- Rugged impact resistant ABS case and cover (UL94-HB)
- U.L. recognized under file number MH 20845

Performance Specifications

Nominal Voltage ................................................................. 12 volts (6 cells)
Nominal Capacity

<table>
<thead>
<tr>
<th>Duration</th>
<th>Current Range</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>20-hr.</td>
<td>900mA to 10.50 volts</td>
<td>18.0 AH</td>
</tr>
<tr>
<td>10-hr.</td>
<td>1.7A to 10.50 volts</td>
<td>17.0 AH</td>
</tr>
<tr>
<td>5-hr.</td>
<td>3.2A to 10.20 volts</td>
<td>16.0 AH</td>
</tr>
<tr>
<td>1-hr.</td>
<td>11.1A to 9.00 volts</td>
<td>11.1 AH</td>
</tr>
<tr>
<td>15-min.</td>
<td>34.3A to 9.00 volts</td>
<td>8.58 AH</td>
</tr>
</tbody>
</table>

Approximate Weight .......................................................... 12.60 lbs. (5.72 kg)
Energy Density (20-hr. rate) .............................................. 1.53 W-h/in3 (93.51 W-h/l)
Specific Energy (20-hr. rate) ............................................ 17.14 W-h/lb (37.79 W-h/kg)
Internal Resistance (approx.) ............................................ 14 milliohms
Max Discharge Current (7 Min.) ........................................... 54.0 amperes
Max Short-Duration Discharge Current (10 Sec.) ................. 180.0 amperes
Shelf Life (% of nominal capacity at 68°F (20°C))

<table>
<thead>
<tr>
<th>Duration</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Month</td>
<td>97%</td>
</tr>
<tr>
<td>3 Months</td>
<td>91%</td>
</tr>
<tr>
<td>6 Months</td>
<td>83%</td>
</tr>
</tbody>
</table>

Operating Temperature Range

Charge: .......................................................... -4°F (-20°C) to 122°F (50°C)
Discharge: ................................................... -40°F (-40°C) to 140°F (60°C)
Case .......................................................... ABS Plastic

Power-Sonic Chargers ....PSC-122000A, 124000A, 122000A-C, 124000A-C

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website. All data subject to change without notice.
**Charging**

**Cycle Applications:** Limit initial current to 5.4A. Charge until battery voltage (under charge) reaches 14.4 to 14.7 volts at 68°F (20°C). Hold at 14.4 to 14.7 volts until current drops to under 180mA. Battery is fully charged under these conditions, and charger should be disconnected or switched to “float” voltage.

**“Float” or “Stand-By” Service:** Hold battery across constant voltage source of 13.5 to 13.8 volts continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

**Note:** Due to the self-discharge characteristics of this type of battery, it is imperative that they be charged within 6 months of storage, otherwise permanent loss of capacity might occur as a result of sulfation.

**Chargers**

Power-Sonic offers a wide range of chargers suitable for batteries up to 100AH. Please refer to the Charger Selection Guide in our specification sheets for “C-Series Switch Mode Chargers” and “Transformer Type A and F Series”. Please contact our Technical department for advice if you have difficulty in locating suitable models.

**Further Information**

Please refer to our website www.power-sonic.com for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc..

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