### Rechargeable Sealed Lead Acid Battery

#### PS – General Purpose Series

**PS-12180 FR**

**12V 18.0 AH @ 20-hr.**

**12V 17.1 AH @ 10-hr.**

#### TERMINALS: (mm)

**F2:** Quick disconnect tabs, 0.250” x 0.032” – Mate with AMP INC FASTON “250” series

**NB2:** Tin plated brass post with ‘Nut & Bolt’ fasteners

**T12:** Threaded insert with 5mm stud fastener

#### DIMENSIONS: Inch (mm)

- **L:** 7.13 (181)
- **W:** 3.00 (76)
- **H:** 6.59 (167)
- **HT:** 6.59 (167)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

#### FEATURES

- 5 year design life
- Absorbent Glass Mat (AGM) technology for superior performance
- Valve regulated, maintenance free spill proof construction
- Power/volume ratio yielding excellent energy density
- Rugged vibration and impact resistant flame retardant ABS case and cover to UL94:V0
- Gas recombination technology

#### APPROVALS

- U.L. recognized
- ISO9001:2015 – Quality management systems

#### PERFORMANCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Nominal Voltage</th>
<th>12 volts (6 cells)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td></td>
</tr>
<tr>
<td>20-hr. (900mA to 10.50 volts)</td>
<td>18.00 AH</td>
</tr>
<tr>
<td>10-hr. (1.71A to 10.50 volts)</td>
<td>17.10 AH</td>
</tr>
<tr>
<td>5-hr. (3.06A to 10.20 volts)</td>
<td>15.30 AH</td>
</tr>
<tr>
<td>1-hr. (11.5A to 9.60 volts)</td>
<td>11.50 AH</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Approximate Weight</th>
<th>12.32 lbs. (5.6 kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Resistance (approx.)</td>
<td>10.5 milliohms</td>
</tr>
<tr>
<td>Max Short-Duration Discharge Current (5 Sec.)</td>
<td>270.0 amperes</td>
</tr>
</tbody>
</table>

#### Shelf Life (% of nominal capacity at 68°F (20°C))

- 1 Month: 92%
- 3 Month: 90%
- 6 Month: 80%

#### Operating Temperature Range

- Charge: 5°F (-15°C) to 122°F (50°C)
- Discharge: 5°F (-15°C) to 104°F (40°C)

#### Case

- ABS Plastic

#### Power Sonic Chargers

- PSC-122000A-C
- PSC-122000-PC
- PSC-124000-PC
- PSC-124000A-C

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CHARGING

Cycle Applications: Apply constant voltage charge at 2.35v/c – 2.45v/c (14.1 – 14.7v for 12v Monobloc) at 20°C. Initial charging current should be set at less than 0.25C Amps. Switch to float charge to avoid overcharging.

“Float” or “Stand-By” Service: Apply constant voltage charge of 2.25v/c – 2.30v/c (13.5 to 13.8 volts for 12v Monobloc at 20°C. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Temperature Compensation: Charging Voltage for both Cyclic and Standby applications should be regulated in relation to ambient temperature. As temperature rises charging voltage should be reduced to prevent overcharge and increased as temperature falls to avoid undercharge.

For further charging information including temperature compensation factors, see Power Sonic Technical Manual/Power Sonic Charger specifications.

APPLICATIONS

- General purpose
- Medical
- Fire and security

CHARGERS

Power Sonic offers a wide range of chargers suitable for batteries with a variety of capacities. Please refer to our website for more information on our switch mode and transformer type chargers. Please contact our technical department for advice if you have difficulty in locating a suitable charger.

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.