# PS SERIES

## PS-6120 FR

**6V 11.0 AH @ 20-hr.**  
**6V 10.9 AH @ 10-hr.**

Rechargeable Sealed Lead Acid Battery  
PS – General Purpose Series

### TERMINALS: (mm)

F1: Quick disconnect tabs,  
0.187" x 0.032" – Mate with  
AMP. INC. FASTON “187” series

- **L:** 5.94 (151)  
- **W:** 2.00 (51)  
- **H:** 3.70 (94)  
- **HT:** 3.93 (100)

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

### DIMENSIONS: inch (mm)

![Battery Dimensions Diagram]

### FEATURES

- 10 – 12 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 impact resistant flame retardant ABS case and cover to UL94:V0  
- Gas recombination technology

### APPROVALS

- IEC 60896 certified  
- U.L. recognized  
- ISO9001:2015 – Quality management systems

### PERFORMANCE SPECIFICATIONS

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Voltage</td>
<td>6 volts (3 cells)</td>
</tr>
<tr>
<td>Nominal Capacity</td>
<td></td>
</tr>
<tr>
<td>20-hr. (550mA to 5.25 volts)</td>
<td>11.00 AH</td>
</tr>
<tr>
<td>10-hr. (1.09A to 5.25 volts)</td>
<td>10.90 AH</td>
</tr>
<tr>
<td>5-hr. (2.13A to 5.25 volts)</td>
<td>10.65 AH</td>
</tr>
<tr>
<td>1-hr. (7.89A to 4.80 volts)</td>
<td>7.89 AH</td>
</tr>
<tr>
<td>Approximate Weight</td>
<td>4.30 lbs. (1.95 kg)</td>
</tr>
<tr>
<td>Internal Resistance (approx.)</td>
<td>15.0 milliohms</td>
</tr>
<tr>
<td>Max Short-Duration Discharge Current (5 Sec.)</td>
<td>165.0 amperes</td>
</tr>
<tr>
<td>Shelf Life (% of nominal capacity at 68°F (20°C))</td>
<td></td>
</tr>
<tr>
<td>1 Month</td>
<td>97%</td>
</tr>
<tr>
<td>3 Month</td>
<td>91%</td>
</tr>
<tr>
<td>6 Month</td>
<td>83%</td>
</tr>
<tr>
<td>Operating Temperature Range</td>
<td></td>
</tr>
<tr>
<td>Charge</td>
<td>32°F (0°C) to 104°F (40°C)</td>
</tr>
<tr>
<td>Discharge</td>
<td>5°F (-15°C) to 122°F (50°C)</td>
</tr>
<tr>
<td>Case</td>
<td>UL94:V0 ABS Plastic</td>
</tr>
</tbody>
</table>

### Power Sonic Chargers

- PSC-61300-PC

To ensure safe and efficient operation always refer to the latest edition of our Technical Manual, as published on our website.

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SHELF LIFE & STORAGE

LIFE CHARACTERISTICS IN STAND-BY USE

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
- Emergency lighting
- 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.