PSH-12100FR 12V 10.5 AH @ 20-hr. 41 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery
PHS – High-Rate Series

TERMINALS (mm)
F2: Quick disconnect tabs, 0.250” x 0.032” – Mate with AMP INC FASTON “250” series

Typical Torque – Not Applicable

DIMENSIONS inch (mm)
L: 5.94 (151)   W: 2.56 (65)   H: 4.37 (111)   HT: 4.61 (117)

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

FEATURES
• Absorbent Glass Mat (AGM) technology for superior performance
• Designed specifically for high-rate discharge applications
• Valve regulated, maintenance free spill proof construction
• Exceptionally high energy density
• Constant power (watts/cell)
• Rugged vibration and impact resistant ABS case and cover flame retardant to UL94-V0

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 Power (15 min.)</td>
<td>41 W/Cell</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td></td>
</tr>
<tr>
<td>20-hr.</td>
<td>(525mA to 10.50 volts)</td>
</tr>
<tr>
<td>10-hr.</td>
<td>(1.00A to 10.50 volts)</td>
</tr>
<tr>
<td>5-hr.</td>
<td>(1.87A to 10.20 volts)</td>
</tr>
<tr>
<td>1-hr.</td>
<td>(6.82A to 9.00 volts)</td>
</tr>
<tr>
<td>15-min.</td>
<td>(17.2A to 9.00 volts)</td>
</tr>
<tr>
<td>10.50 AH</td>
<td></td>
</tr>
<tr>
<td>10.00 AH</td>
<td></td>
</tr>
<tr>
<td>9.35 AH</td>
<td></td>
</tr>
<tr>
<td>6.82 AH</td>
<td></td>
</tr>
<tr>
<td>4.30 AH</td>
<td></td>
</tr>
<tr>
<td>Approximate Weight</td>
<td>7.00 lbs. (3.18 kg)</td>
</tr>
<tr>
<td>Internal Resistance (approx.)</td>
<td>17.0 milliohms</td>
</tr>
<tr>
<td>Max Discharge Current (5 Sec.)</td>
<td>31.5 amperes</td>
</tr>
<tr>
<td>Max Short-Duration Discharge Current (10 Sec.)</td>
<td>105.0 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>5°F (-15°C) to 122°F (50°C)</td>
</tr>
<tr>
<td>Discharge</td>
<td>-4°F (-20°C) to 140°F (60°C)</td>
</tr>
<tr>
<td>Case and Cover</td>
<td>Flame Retardant ABS Plastic UL94-V0</td>
</tr>
</tbody>
</table>

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**PSH-12100FR** 12V 10.5 AH @ 20-hr.
41 W/Cell @ 15-min.

Rechargeable Sealed Lead Acid Battery
PSH – High-Rate Series

**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**

- **UPS**
- **Telecoms**
- **Data Center**
- **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](http://www.power-sonic.com) for a complete range of useful downloads, such as product catalogs, material safety data sheets (MSDS), ISO certification, etc.