Rechargeable Sealed Lead Acid Battery

**PS HD – Heavy Duty Series**

**TERMINALS: (mm)**

<table>
<thead>
<tr>
<th>T12-A: Threaded insert with 3mm stud fastener</th>
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<tbody>
<tr>
<td>Torque: 2.0~3.0 Nxm</td>
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**DIMENSIONS: inch (mm)**

| L: 7.14 (181) |
| W: 2.99 (76) |
| H: 6.56 (167) |
| HT: 6.56 (167) |

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

**FEATURES**

- Heavy duty (HD) construction with high vibration tolerance
- Punch-plate design yielding ultra-low impedance
- Absorbent Glass Mat (AGM) technology for superior performance
- High-rate discharge characteristics matching ‘pure lead’ products
- Valve regulated, maintenance free spill proof construction
- Rugged impact resistant ABS case and cover

**APPROVALS**

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

**PERFORMANCE SPECIFICATIONS**

| Nominal Voltage | 12 volts (6 cells) |
| Rated Capacity |
| 20-hr. | (1.06A to 10.80 volts) | 21.0 AH |
| 10-hr. | (2.0A to 10.80 volts) | 20.0 AH |
| 5-hr. | (3.57A to 10.50 volts) | 17.8 AH |
| 1-hr. | (15.1A to 9.60 volts) | 15.1 AH |
| 15-min. | (50.2A to 9.60 volts) | 12.5 AH |
| Approximate Weight | 14.0 lbs. (6.35 kg) |
| Internal Resistance (approx.) | 7.0 milliohms |
| Max Discharge Current (5 min.) | 93.4 amperes |
| Max Short-Duration Discharge Current (5 Sec.) | 470.0 amperes |
| Shelf Life (% of nominal capacity at 68°F (20°C)) |
| 1 Month | 97% |
| 3 Month | 91% |
| 6 Month | 83% |
| Operating Temperature Range |
| Charge | 5°F (-15°C) to 122°F (50°C) |
| Discharge | -4°F (-20°C) to 140°F (60°C) |
| Case | ABS Plastic |

**Recommended Power Sonic Chargers**

- PSC-124000A-C
- PSC-124000-PC
- PSC-243500-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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All data subject to change without notice. E&O.E
**PS HD SERIES**

**PS-12200HD-M6**  
12V 21.0 AH @ 20-hr.  
12V 20.0 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery  
PS HD – Heavy Duty Series

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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.

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**APPLICATIONS**

- Fire and security  
- Medical  
- Wind  
- Emergency Lighting  
- Solar

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**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.