PG-12V150 FR  12V 154.0 AH @ 20-hr.  
12V 144.0 AH @ 10-hr.

Rechargeable Sealed Lead Acid Battery
PG – Long Life Series

TERMINALS: (mm)

T11: Threaded insert with 8mm stud fastener

20mm

Torque: 11.0~14.7 Nxm

DIMENSIONS: inch (mm)

L: 13.50 (343)  
W: 6.73 (171)  
H: 10.79 (274)  
HT: 11.02 (280)

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
• Superb high-rate discharge characteristics ensures reliable performance in UPS and telecom applications
• Proven valve regulated technology that guarantees safe operation without maintenance
• Rugged impact resistant ABS case and cover, flame retardant to UL94:V-0
• Thick plate design and efficient gas recombination yield a service life of 10 – 12 years in standby mode

APPROVALS

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

PERFORMANCE SPECIFICATIONS

Nominal Voltage  
12 volts (6 cells)

Nominal Capacity
20-hr.  (7.70A to 10.80 volts)  
10-hr.  (14.4A to 10.80 volts)  
5-hr.  (24.1A to 10.50 volts)  
1-hr.  (84.0A to 9.60 volts)

154.0 AH  
144.0 AH  
120.5 AH  
84.0 AH

Approximate Weight  
99 lbs. (44.9 kg)

Internal Resistance (approx.)  
4.0 millionohms

Max Short-Duration Discharge Current (10 Sec.)  
840 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
Flame Retardant ABS Plastic
UL94:V-0

Power Sonic Chargers
PSC-1220000-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
**PG-12V150 FR** 12V 154.0 AH @ 20-hr.  
12V 144.0AH @ 10-hr.  
Rechargeable Sealed Lead Acid Battery  
PS – General Purpose Series

### Cycle Life in Relation to Depth of Discharge

<table>
<thead>
<tr>
<th>Battery Temperature (°C)</th>
<th>20°C</th>
<th>30°C</th>
<th>40°C</th>
<th>50°C</th>
<th>60°C</th>
<th>70°C</th>
<th>80°C</th>
<th>90°C</th>
<th>100°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery Temperature (°F)</td>
<td>68°F</td>
<td>86°F</td>
<td>104°F</td>
<td>122°F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cycle Life (Year)</td>
<td>6</td>
<td>3</td>
<td>2</td>
<td>1</td>
<td>0.5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Charging Voltage:** 2.25v/c

### General Relation of Capacity vs. Storage Time

<table>
<thead>
<tr>
<th>Standing Period (months)</th>
<th>0</th>
<th>2</th>
<th>4</th>
<th>6</th>
<th>8</th>
<th>10</th>
<th>12</th>
<th>14</th>
<th>16</th>
<th>18</th>
<th>20</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity Retention Ratio (%)</td>
<td>100</td>
<td>80</td>
<td>60</td>
<td>40</td>
<td>20</td>
<td>10</td>
<td>5</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**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

A whole range of CYCLIC applications including but not limited to:

- Fire and Security
- Emergency Lighting
- Telecommunications
- Utility
- Solar
- Wind
- UPS
- UPS
- UPS
- UPS
- UPS
- UPS

### 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.