Specifications

**Rated Voltage**
12V

**Nominal Capacity**
- C, 1.80V/cell: 170Ah
- C, 1.75V/cell: 170Ah

**Dimension**
- Length: 579.3mm (22.8 inches)
- Width: 227.5mm (8.9 inches)
- Container Height: 320.3mm (12.6 inches)
- Approx. Total Height: 320.3mm (12.6 inches)

**Approx. Weight**
54.8 Kg (120.8 lbs)

**Container Material**
PC-ABS flame retardant jar and cover to UL94 V-0

**Rated Capacity (25°C)**
- 184.8 Ah (20hr, 9.24A, 1.80V/cell)
- 170.0 Ah (10hr, 17.0A, 1.80V/cell)
- 162.0 Ah (5hr, 32.4A, 1.75V/cell)
- 151.5 Ah (3hr, 50.5A, 1.75V/cell)
- 129.9 Ah (1hr, 129.9A, 1.67V/cell)

**Max. Discharge Current**
2040A

**Internal Resistance (25°C)**
Approx. 3.5mΩ (Fully charged)

**Operating Temp. Range**
- Discharge: -40 - 85°C (-40 - 149°F)
- Charge: 0 - 40°C (32 - 104°F)
- Storage: -20 - 40°C (-4 - 104°F)

**Nominal Operating Temp. Range**
25°C ± 3°C (77°F)

**Max. Charging Current (25°C)**
51.0A

**Charge Voltage (25°C)**
- Float: 13.62V
- Equalization: 14.1~14.4V
- Temp. Coefficient: -3mV/cell/°C

**Effect of Temp. to Capacity**
- 40°C (104°F): 103%
- 25°C (77°F): 100%
- 0°C (32°F): 86%

**Self Discharge**
- PLH series batteries can be stored up to 24 months at 25°C (77°F). For higher temperatures, the time interval will be shorter.
- Battery needs to be given a freshening charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.

---

**Constant Current Discharge (Amperes) at 25°C (77°F)**

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>10 min</th>
<th>15min</th>
<th>20min</th>
<th>30min</th>
<th>45min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>314.0</td>
<td>288.1</td>
<td>243.3</td>
<td>180.9</td>
<td>139.4</td>
<td>115.2</td>
<td>96.8</td>
<td>76.7</td>
<td>68.8</td>
<td>59.9</td>
<td>50.5</td>
<td>42.4</td>
<td>34.4</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>337.2</td>
<td>303.0</td>
<td>259.5</td>
<td>193.0</td>
<td>146.7</td>
<td>121.1</td>
<td>105.0</td>
<td>89.2</td>
<td>76.8</td>
<td>67.4</td>
<td>58.0</td>
<td>49.4</td>
<td>40.6</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>372.6</td>
<td>331.2</td>
<td>285.9</td>
<td>220.4</td>
<td>152.9</td>
<td>125.3</td>
<td>107.0</td>
<td>89.6</td>
<td>75.8</td>
<td>66.2</td>
<td>56.8</td>
<td>47.8</td>
<td>40.0</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>408.1</td>
<td>366.8</td>
<td>320.2</td>
<td>252.2</td>
<td>185.9</td>
<td>152.9</td>
<td>135.0</td>
<td>117.0</td>
<td>100.0</td>
<td>83.0</td>
<td>69.0</td>
<td>59.8</td>
<td>53.0</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>425.8</td>
<td>374.5</td>
<td>320.5</td>
<td>257.4</td>
<td>201.9</td>
<td>169.9</td>
<td>152.8</td>
<td>135.8</td>
<td>118.0</td>
<td>101.0</td>
<td>85.0</td>
<td>70.8</td>
<td>63.0</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>450.7</td>
<td>396.6</td>
<td>347.2</td>
<td>282.0</td>
<td>217.3</td>
<td>185.7</td>
<td>168.7</td>
<td>151.7</td>
<td>134.7</td>
<td>117.7</td>
<td>100.7</td>
<td>86.7</td>
<td>79.0</td>
</tr>
</tbody>
</table>

**Constant Power Discharge (Watts/cell) at 25°C (77°F)**

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>10 min</th>
<th>15min</th>
<th>20min</th>
<th>30min</th>
<th>45min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>577.1</td>
<td>497.0</td>
<td>438.2</td>
<td>360.2</td>
<td>275.1</td>
<td>230.3</td>
<td>132.4</td>
<td>96.8</td>
<td>76.7</td>
<td>68.8</td>
<td>59.9</td>
<td>50.5</td>
<td>42.4</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>610.1</td>
<td>522.2</td>
<td>461.3</td>
<td>378.0</td>
<td>286.3</td>
<td>237.8</td>
<td>136.9</td>
<td>99.5</td>
<td>78.8</td>
<td>69.3</td>
<td>59.8</td>
<td>50.5</td>
<td>42.4</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>661.3</td>
<td>561.1</td>
<td>485.4</td>
<td>393.2</td>
<td>295.2</td>
<td>244.6</td>
<td>139.2</td>
<td>100.0</td>
<td>79.8</td>
<td>67.8</td>
<td>58.4</td>
<td>50.5</td>
<td>42.4</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>710.2</td>
<td>594.2</td>
<td>507.5</td>
<td>406.2</td>
<td>302.1</td>
<td>249.0</td>
<td>141.0</td>
<td>102.1</td>
<td>80.7</td>
<td>65.3</td>
<td>58.4</td>
<td>50.5</td>
<td>42.4</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>731.8</td>
<td>608.0</td>
<td>517.3</td>
<td>411.6</td>
<td>304.5</td>
<td>250.3</td>
<td>142.1</td>
<td>102.9</td>
<td>81.2</td>
<td>65.6</td>
<td>58.4</td>
<td>50.5</td>
<td>42.4</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>758.2</td>
<td>621.9</td>
<td>525.2</td>
<td>414.3</td>
<td>305.4</td>
<td>250.8</td>
<td>142.3</td>
<td>103.0</td>
<td>81.4</td>
<td>65.9</td>
<td>58.4</td>
<td>50.5</td>
<td>42.4</td>
</tr>
</tbody>
</table>
**Applications**
- Telecommunication
- Railway signal
- Alarm and security system
- Power station systems
- Emergency power supply

**General Features**
- 20 years design life (25°C)
- Premium ABS+PC jar & covers, Flame Retardant to UL94 V-0
- High-rate performance, high energy density
- High quality AGM separators minimize electrical resistance to allow high current discharging properties

**Standards**
- Compliance with IEC 60896 standards
- Classified as "Very Long Life" according to Eurobat
- CE, UL Certified
- Manufactured in Leoch®BIATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

**Discharge Characteristics**

**Float Charging Characteristics**

**Effects of Temperature on Discharging Time**

**Float Life**

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