### Specification

<table>
<thead>
<tr>
<th>Nominal Voltage</th>
<th>12V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity (10HR)</td>
<td>120.0AH</td>
</tr>
</tbody>
</table>

**Dimensions**

- Length: 408±3mm (16.1 inches)
- Width: 177±2mm (6.97 inches)
- Container Height: 225±3mm (8.86 inches)
- Total Height (with Terminal): 225±3mm (8.86 inches)

**Approx Weight**

- Approx 35.0 kg (75.0lbs)

**Terminal**

- T11

**Container Material**

- ABS

**Rated Capacity**

- Discharge: (20hr, 1.80V/cell, 25°C/77°F)
- 124.8 AH/6.24A
- 120.0 AH/12.0 A
- 103.2 AH/20.64A
- 93.8 AH/31.2 A
- 73.2 AH/33.2 A

- (10hr, 1.80V/cell, 25°C/77°F)
- (5hr, 1.75V/cell, 25°C/77°F)
- (3hr, 1.75V/cell, 25°C/77°F)
- (1hr, 1.60V/cell, 25°C/77°F)

**Max. Discharge Current**

- 1300A (5s)

**Internal Resistance**

- Approx 4.0mΩ

**Operating Temp. Range**

- Discharge: -15~50°C (5~122°F)
- Charge: 0~40°C (32~104°F)
- Storage: -15~40°C (5~104°F)

**Nominal Operating Temp. Range**

- 25±3°C (77±5°F)

**Initial Charging Current**

- Less than 36.0A Voltage
- 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C

**No limit on Initial Charging Current Voltage**

- 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C

**Capacity affected by Temperature**

- 40°C (104°F): 103%
- 25°C (77°F): 100%
- 0°C (32°F): 86%

**Self Discharge**

LP series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

### Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Emergency light
- Railway signal
- Aircraft signal
- Alarm and security system
- Electronic apparatus and equipment
- Communication power supply
- DC power supply
- Auto control system

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

<table>
<thead>
<tr>
<th>F.V./Time</th>
<th>5min</th>
<th>10min</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>6h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.86V/cell</td>
<td>205.4</td>
<td>161.5</td>
<td>143.6</td>
<td>134.8</td>
<td>134.8</td>
<td>129.3</td>
<td>123.8</td>
<td>114.9</td>
<td>114.9</td>
<td>106.2</td>
<td>98.8</td>
<td>94.0</td>
<td>90.4</td>
<td></td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>275.7</td>
<td>206.3</td>
<td>165.9</td>
<td>135.8</td>
<td>107.7</td>
<td>90.4</td>
<td>83.4</td>
<td>80.2</td>
<td>73.2</td>
<td>73.2</td>
<td>67.2</td>
<td>61.6</td>
<td>58.0</td>
<td></td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>310.8</td>
<td>226.7</td>
<td>181.2</td>
<td>146.1</td>
<td>111.8</td>
<td>83.4</td>
<td>66.3</td>
<td>54.0</td>
<td>42.4</td>
<td>42.4</td>
<td>37.2</td>
<td>32.1</td>
<td>28.1</td>
<td></td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>342.3</td>
<td>247.1</td>
<td>193.5</td>
<td>153.5</td>
<td>116.4</td>
<td>86.7</td>
<td>68.4</td>
<td>52.4</td>
<td>42.1</td>
<td>42.1</td>
<td>39.3</td>
<td>34.3</td>
<td>31.5</td>
<td></td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>377.4</td>
<td>266.7</td>
<td>205.7</td>
<td>163.1</td>
<td>122.8</td>
<td>88.9</td>
<td>70.7</td>
<td>53.5</td>
<td>47.2</td>
<td>47.2</td>
<td>43.9</td>
<td>39.3</td>
<td>36.2</td>
<td></td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>416.3</td>
<td>289.5</td>
<td>220.0</td>
<td>173.7</td>
<td>129.6</td>
<td>92.6</td>
<td>73.2</td>
<td>51.5</td>
<td>45.1</td>
<td>45.1</td>
<td>42.1</td>
<td>38.2</td>
<td>35.4</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>F.V./Time</th>
<th>5min</th>
<th>10min</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>6h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.86V/cell</td>
<td>375.5</td>
<td>298.3</td>
<td>256.2</td>
<td>216.5</td>
<td>174.0</td>
<td>132.8</td>
<td>109.1</td>
<td>70.0</td>
<td>55.5</td>
<td>45.5</td>
<td>36.8</td>
<td>32.1</td>
<td>26.2</td>
<td>22.4</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>498.7</td>
<td>376.6</td>
<td>305.4</td>
<td>252.2</td>
<td>202.2</td>
<td>153.2</td>
<td>121.6</td>
<td>75.9</td>
<td>59.4</td>
<td>48.3</td>
<td>39.3</td>
<td>34.3</td>
<td>27.7</td>
<td>23.7</td>
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<tr>
<td>1.75V/cell</td>
<td>550.3</td>
<td>407.2</td>
<td>329.5</td>
<td>268.7</td>
<td>208.1</td>
<td>157.5</td>
<td>126.6</td>
<td>78.4</td>
<td>60.3</td>
<td>49.2</td>
<td>40.2</td>
<td>35.1</td>
<td>28.1</td>
<td>23.9</td>
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<tr>
<td>1.70V/cell</td>
<td>589.2</td>
<td>433.8</td>
<td>346.9</td>
<td>280.2</td>
<td>215.4</td>
<td>163.2</td>
<td>130.2</td>
<td>81.3</td>
<td>61.9</td>
<td>50.4</td>
<td>41.1</td>
<td>35.8</td>
<td>28.5</td>
<td>24.1</td>
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<td>1.65V/cell</td>
<td>640.5</td>
<td>463.8</td>
<td>366.0</td>
<td>295.5</td>
<td>225.4</td>
<td>165.8</td>
<td>133.6</td>
<td>83.1</td>
<td>64.2</td>
<td>52.0</td>
<td>42.1</td>
<td>36.5</td>
<td>28.8</td>
<td>24.6</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>690.1</td>
<td>492.1</td>
<td>385.0</td>
<td>311.3</td>
<td>236.3</td>
<td>171.8</td>
<td>137.6</td>
<td>85.5</td>
<td>65.9</td>
<td>53.4</td>
<td>43.4</td>
<td>37.2</td>
<td>29.1</td>
<td>24.8</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice.
**T11 Terminal**

Unit: mm

- Diameter: 20
- M6
- Thickness: 6

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**Discharge Characteristics**

![Graph showing discharge characteristics](image)

**Float Charging Characteristics**

![Graph showing float charging characteristics](image)

**Temperature Effects in Relation to Battery Capacity**

![Graph showing temperature effects on capacity](image)

**Effect of Temperature on Long Term Float Life**

![Graph showing effect of temperature on float life](image)

**Cycle Life in Relation to Depth of Discharge**

![Graph showing cycle life vs. depth of discharge](image)

**Self Discharge Characteristics**

![Graph showing self discharge characteristics](image)

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**Testing condition**

Discharging current: 0.17C (FV 1.7V/cell);
Charging current: 0.25C max, voltage: 2.45V/cell;
Charging volume: 125% of discharged capacity.

**No supplementary charge required**
(Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use. Optional charging way as below:
1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V-cell.
2. Charged for above 30 hours at limited current 0.25CA and constant voltage 2.45V-cell.
3. Charged for 8~10 hours at limited current 0.05CA.

Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.