Specifications

- **Rated Voltage**: 12V
- **Nominal Capacity**: 250.0Ah (C<sub>10</sub>, 1.80V/cell)
- **Dimension**: Length 522±3mm (20.55 inches), Width 268±3mm (10.55 inches), Container Height 220±3mm (8.66 inches), Total Height 226±3mm (8.90 inches)
- **Approx Weight**: 74.0 Kg (163.17 lbs)
- **Terminal**: M8
- **Container Material**: ABS
- **Rated Capacity (25℃)**: 268.0 Ah (20hr, 13.4A, 1.80V/cell), 250.0 Ah (10hr, 25.0A, 1.80V/cell), 227.0 Ah (5hr, 45.4A, 1.75V/cell), 206.7 Ah (3hr, 68.9A, 1.75V/cell), 187.2 Ah (1hr, 187.2A, 1.60V/cell)
- **Max. Discharge Current**: 2500A (5s)
- **Internal Resistance (25℃)**: Approx 2.5mΩ
- **Operating Temp. Range**: Discharge -15 ~ -50℃, Charge 0 ~ 40℃, Storage -15 ~ 40℃
- **Nominal Operating Temp. Range**: 25±3℃ (77±5℃)
- **Cycle Use**: Initial Charging Current less than 0A, Voltage 14.4V~15.0V at 25℃C (77℃F), Temp. Coefficient -30mV/℃
- **Standby Use**: Initial Charging Current less than 0A, Voltage 13.5V~13.8V at 25℃C (77℃F), Temp. Coefficient -20mV/℃
- **Effect of temp. to Capacity**: 40℃ (104°F) 103%, 25℃ (77°F) 100%, 0℃ (32°F) 86%
- **Self Discharge**: LPL 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.

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

<table>
<thead>
<tr>
<th>F.V./Time</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>5h</th>
<th>6h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>354.7</td>
<td>326.5</td>
<td>280.6</td>
<td>233.9</td>
<td>173.3</td>
<td>144.7</td>
<td>82.5</td>
<td>66.9</td>
<td>51.0</td>
<td>41.2</td>
<td>36.1</td>
<td>28.2</td>
<td>24.2</td>
<td>12.9</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>453.3</td>
<td>394.5</td>
<td>331.7</td>
<td>276.0</td>
<td>201.6</td>
<td>162.1</td>
<td>90.1</td>
<td>67.7</td>
<td>54.4</td>
<td>44.2</td>
<td>38.8</td>
<td>29.7</td>
<td>25.0</td>
<td>13.4</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>430.9</td>
<td>356.8</td>
<td>286.5</td>
<td>209.2</td>
<td>169.5</td>
<td>93.4</td>
<td>68.9</td>
<td>55.7</td>
<td>45.4</td>
<td>39.8</td>
<td>30.7</td>
<td>25.7</td>
<td>13.7</td>
<td></td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>460.1</td>
<td>375.0</td>
<td>298.2</td>
<td>217.6</td>
<td>174.9</td>
<td>97.1</td>
<td>70.8</td>
<td>57.1</td>
<td>46.5</td>
<td>40.7</td>
<td>31.9</td>
<td>26.7</td>
<td>14.1</td>
<td></td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>\</td>
<td>398.4</td>
<td>314.6</td>
<td>223.0</td>
<td>180.8</td>
<td>99.9</td>
<td>73.9</td>
<td>59.1</td>
<td>47.8</td>
<td>41.6</td>
<td>33.0</td>
<td>27.4</td>
<td>14.5</td>
<td></td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>\</td>
<td>\</td>
<td>424.3</td>
<td>332.1</td>
<td>232.4</td>
<td>187.2</td>
<td>103.2</td>
<td>76.1</td>
<td>60.9</td>
<td>49.4</td>
<td>42.5</td>
<td>33.6</td>
<td>28.0</td>
<td>14.7</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>F.V./Time</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>5h</th>
<th>6h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
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</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>662.4</td>
<td>615.9</td>
<td>534.5</td>
<td>450.5</td>
<td>336.6</td>
<td>282.0</td>
<td>162.0</td>
<td>123.9</td>
<td>100.7</td>
<td>81.6</td>
<td>71.8</td>
<td>56.2</td>
<td>48.4</td>
<td>25.8</td>
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<tr>
<td>1.80V/cell</td>
<td>836.5</td>
<td>734.2</td>
<td>622.6</td>
<td>523.5</td>
<td>388.5</td>
<td>314.2</td>
<td>175.6</td>
<td>132.5</td>
<td>106.9</td>
<td>87.2</td>
<td>76.7</td>
<td>59.1</td>
<td>49.9</td>
<td>26.8</td>
</tr>
<tr>
<td>1.75V/cell</td>
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<td>792.2</td>
<td>663.4</td>
<td>539.1</td>
<td>399.4</td>
<td>327.2</td>
<td>181.4</td>
<td>134.4</td>
<td>109.2</td>
<td>89.2</td>
<td>78.6</td>
<td>60.9</td>
<td>51.2</td>
<td>27.3</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>\</td>
<td>\</td>
<td>834.1</td>
<td>692.1</td>
<td>558.0</td>
<td>413.8</td>
<td>336.5</td>
<td>188.2</td>
<td>137.9</td>
<td>111.6</td>
<td>91.3</td>
<td>80.1</td>
<td>63.2</td>
<td>33.2</td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>\</td>
<td>\</td>
<td>729.8</td>
<td>583.8</td>
<td>420.4</td>
<td>345.3</td>
<td>192.4</td>
<td>143.2</td>
<td>115.0</td>
<td>93.5</td>
<td>81.6</td>
<td>65.2</td>
<td>54.5</td>
<td>28.9</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>\</td>
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<td>769.0</td>
<td>612.2</td>
<td>435.8</td>
<td>355.7</td>
<td>197.9</td>
<td>146.9</td>
<td>118.3</td>
<td>96.3</td>
<td>83.1</td>
<td>66.3</td>
<td>55.6</td>
<td>29.2</td>
</tr>
</tbody>
</table>
LPL Series-Long Life Standby
LPL12-250(12V250Ah)

**Applications**
- UPS and EPS
- Emergency power supply
- Railway and airport signal system
- Marine and power stations
- Alarm and security systems
- Electronic apparatus and equipment
- Communication power supply, DC power supply

**General Features**
- 12 years design life (25°C)
- Grid refining technology and the thicker plates are used to extend the battery standby life and reduce the plate grid corrosion speed
- Using oxygen recombination technology: maintenance-free
- Unique vent valve design: control water losing, prevent air and spark going inside

**Discharge Characteristics**

![Discharge Characteristics Diagram](image)

**Float Charging Characteristics**

![Float Charging Characteristics Diagram](image)

**Temperature Effects in Relation to Battery Capacity**

![Temperature Effects Diagram](image)

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

![Effect of Temperature Diagram](image)

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  Fax: +91-80-23440017
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**Standards**
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®TS16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

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