## Specifications

### Rated Voltage
- **12V**

### Nominal Capacity
- **70.0 Ah** (C, 1.80V/cell)

### Dimension
- **Length**: 348±3mm (13.70 inches)
- **Width**: 167±2mm (6.57 inches)
- **Container Height**: 178±2mm (7.01 inches)
- **Total Height**: 178±2mm (7.01 inches)

### Approx Weight
- **24.0 Kg (52.92 lbs)**

### Terminal
- **M6**

### Container Material
- **ABS**

### Rated Capacity (25°C)
- **75.0 Ah**
- **70.0 Ah**
- **64.0 Ah**
- **57.6 Ah**
- **49.6 Ah**

### Max. Discharge Current
- **840A (5s)**

### Internal Resistance (25°C)
- **Approx 6.6Ω**

### 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)**

### Cycle Use
- Initial Charging Current less than 0A. Voltage 14.4V~15.0V at 25°C (77°F)
- Temp. Coefficient: -20mV/°C

### Standby Use
- Initial Charging Current less than 0A. Voltage 13.5V~13.8V at 25°C (77°F)
- Temp. Coefficient: -20mV/°C

### Effect of temp. to Capacity
- **40°C** (104°F)
  - Initial: 14.4V~15.0V
  - Temp. Coefficient: -30mV/°C

### 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 (Ampere) at 25°C (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>123.6</td>
<td>99.7</td>
<td>81.8</td>
<td>66.9</td>
<td>47.3</td>
<td>38.3</td>
<td>26.4</td>
<td>17.5</td>
<td>13.7</td>
<td>11.7</td>
<td>10.1</td>
<td>7.89</td>
<td>6.78</td>
<td>3.62</td>
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<tr>
<td>1.80V/cell</td>
<td>157.9</td>
<td>120.5</td>
<td>96.7</td>
<td>78.9</td>
<td>55.0</td>
<td>42.9</td>
<td>28.8</td>
<td>18.9</td>
<td>14.6</td>
<td>12.5</td>
<td>10.9</td>
<td>8.30</td>
<td>7.00</td>
<td>3.75</td>
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<tr>
<td>1.75V/cell</td>
<td>173.5</td>
<td>131.6</td>
<td>104.0</td>
<td>81.9</td>
<td>57.1</td>
<td>44.9</td>
<td>29.9</td>
<td>19.2</td>
<td>15.0</td>
<td>12.8</td>
<td>11.2</td>
<td>8.58</td>
<td>7.19</td>
<td>3.84</td>
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<tr>
<td>1.70V/cell</td>
<td>189.1</td>
<td>140.5</td>
<td>109.3</td>
<td>85.3</td>
<td>59.4</td>
<td>46.3</td>
<td>31.1</td>
<td>19.8</td>
<td>15.4</td>
<td>13.2</td>
<td>11.4</td>
<td>8.94</td>
<td>7.46</td>
<td>3.94</td>
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<td>1.65V/cell</td>
<td>204.1</td>
<td>149.4</td>
<td>116.2</td>
<td>90.0</td>
<td>60.9</td>
<td>47.9</td>
<td>32.0</td>
<td>20.6</td>
<td>15.9</td>
<td>13.5</td>
<td>11.7</td>
<td>9.25</td>
<td>7.67</td>
<td>4.06</td>
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<tr>
<td>1.60V/cell</td>
<td>221.6</td>
<td>159.8</td>
<td>123.7</td>
<td>95.0</td>
<td>63.5</td>
<td>49.6</td>
<td>33.0</td>
<td>21.2</td>
<td>16.4</td>
<td>14.0</td>
<td>11.9</td>
<td>9.41</td>
<td>7.83</td>
<td>4.13</td>
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</table>

### Constant Power Discharge (Watts/cell) at 25°C (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>230.8</td>
<td>188.0</td>
<td>155.9</td>
<td>128.8</td>
<td>91.9</td>
<td>74.6</td>
<td>51.9</td>
<td>34.5</td>
<td>27.1</td>
<td>23.1</td>
<td>20.1</td>
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<td>7.24</td>
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<td>224.2</td>
<td>181.6</td>
<td>149.7</td>
<td>106.1</td>
<td>83.2</td>
<td>56.2</td>
<td>37.0</td>
<td>28.8</td>
<td>24.7</td>
<td>21.5</td>
<td>16.5</td>
<td>14.0</td>
<td>7.49</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>315.2</td>
<td>241.9</td>
<td>193.5</td>
<td>154.2</td>
<td>109.0</td>
<td>86.6</td>
<td>58.1</td>
<td>37.5</td>
<td>29.4</td>
<td>25.2</td>
<td>22.0</td>
<td>17.0</td>
<td>14.3</td>
<td>7.66</td>
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<tr>
<td>1.70V/cell</td>
<td>335.8</td>
<td>254.7</td>
<td>201.8</td>
<td>159.6</td>
<td>113.0</td>
<td>89.1</td>
<td>60.3</td>
<td>38.5</td>
<td>30.0</td>
<td>25.8</td>
<td>22.5</td>
<td>17.7</td>
<td>14.9</td>
<td>7.86</td>
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<td>359.1</td>
<td>268.8</td>
<td>212.8</td>
<td>167.0</td>
<td>114.8</td>
<td>91.4</td>
<td>61.6</td>
<td>39.9</td>
<td>30.9</td>
<td>26.5</td>
<td>22.9</td>
<td>18.3</td>
<td>15.3</td>
<td>8.09</td>
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<tr>
<td>1.60V/cell</td>
<td>381.1</td>
<td>282.7</td>
<td>224.3</td>
<td>175.0</td>
<td>119.0</td>
<td>94.2</td>
<td>63.4</td>
<td>41.0</td>
<td>31.8</td>
<td>27.2</td>
<td>23.3</td>
<td>18.6</td>
<td>15.5</td>
<td>8.21</td>
</tr>
</tbody>
</table>
LPL Series-Long Life Standby
LPL12-70(12V70Ah)

Applications
- UPS and EPS
- Emergency power
- Railway signal and aircraft signal system
- Marine and power stations
- Alarm and security system
- 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

Float Charging Characteristics

Temperature Effects in Relation to Battery Capacity

Effect of Temperature on Long Term Float Life

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