LPL Series-Long Life Standby
LPL2-400(2V400Ah)

Specifications

**Rated Voltage**: 2V

**Nominal Capacity**: 400.0Ah (C100, 1.80V/cell)

**Dimension**:
- Length: 210x3mm (8.27 inches)
- Width: 175x2mm (6.89 inches)
- Container Height: 330x3mm (12.99 inches)
- Total Height: 350x3mm (13.78 inches)

**Approx Weight**: 25.5 Kg (56.2 lbs)

**Terminal**: M8

**Container Material**: ABS or PP

**Rated Capacity (25°C)**:
- 426.0 Ah (20hr, 21.3A, 1.80V/cell)
- 400.0 Ah (10hr, 40.0A, 1.80V/cell)
- 355.0 Ah (5hr, 71.0A, 1.75V/cell)
- 308.7 Ah (3hr, 102.9A, 1.75V/cell)
- 240.3 Ah (1hr, 240.3A, 1.60V/cell)

**Max. Discharge Current**: 3200A (5s)

**Internal Resistance (25°C)**: Approx 0.7mΩ

**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 120.0A. Voltage 2.4V~2.5V at 25°C (77°F) Temp. Coefficient ~5mV/C

**Standby Use**: Initial Charging Current less than 120.0A. Voltage 2.28V~2.30V at 25°C (77°F) Temp. Coefficient ~3mV/C

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

<table>
<thead>
<tr>
<th>F.V./Time</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>402.4</td>
<td>362.4</td>
<td>300.1</td>
<td>240.6</td>
<td>200.6</td>
<td>124.4</td>
<td>94.9</td>
<td>77.6</td>
<td>66.1</td>
<td>57.7</td>
<td>46.2</td>
<td>38.5</td>
<td>20.6</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>457.3</td>
<td>403.6</td>
<td>322.0</td>
<td>253.2</td>
<td>209.8</td>
<td>130.0</td>
<td>99.6</td>
<td>81.1</td>
<td>68.9</td>
<td>60.3</td>
<td>48.2</td>
<td>40.0</td>
<td>21.3</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>502.5</td>
<td>435.1</td>
<td>341.0</td>
<td>266.2</td>
<td>218.9</td>
<td>135.2</td>
<td>102.9</td>
<td>83.8</td>
<td>71.0</td>
<td>61.7</td>
<td>49.2</td>
<td>40.5</td>
<td>21.4</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>536.4</td>
<td>465.5</td>
<td>357.8</td>
<td>276.2</td>
<td>226.6</td>
<td>140.6</td>
<td>106.1</td>
<td>85.7</td>
<td>72.2</td>
<td>62.8</td>
<td>50.0</td>
<td>41.0</td>
<td>21.7</td>
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<tr>
<td>1.65V/cell</td>
<td>565.3</td>
<td>488.4</td>
<td>375.4</td>
<td>288.3</td>
<td>234.7</td>
<td>145.2</td>
<td>108.5</td>
<td>87.5</td>
<td>73.8</td>
<td>63.9</td>
<td>50.8</td>
<td>41.5</td>
<td>21.9</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>592.5</td>
<td>506.4</td>
<td>388.2</td>
<td>296.0</td>
<td>240.3</td>
<td>148.0</td>
<td>110.4</td>
<td>88.7</td>
<td>74.8</td>
<td>64.8</td>
<td>51.5</td>
<td>42.1</td>
<td>22.1</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>F.V./Time</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>761.9</td>
<td>689.3</td>
<td>573.6</td>
<td>462.7</td>
<td>388.1</td>
<td>242.0</td>
<td>185.5</td>
<td>152.2</td>
<td>130.2</td>
<td>114.1</td>
<td>91.7</td>
<td>76.6</td>
<td>41.0</td>
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<tr>
<td>1.80V/cell</td>
<td>854.8</td>
<td>759.6</td>
<td>610.5</td>
<td>483.6</td>
<td>403.6</td>
<td>251.7</td>
<td>193.7</td>
<td>156.5</td>
<td>135.1</td>
<td>118.7</td>
<td>95.4</td>
<td>79.4</td>
<td>42.4</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>925.8</td>
<td>809.5</td>
<td>641.6</td>
<td>505.5</td>
<td>419.2</td>
<td>260.7</td>
<td>199.7</td>
<td>163.3</td>
<td>138.8</td>
<td>121.1</td>
<td>97.0</td>
<td>80.4</td>
<td>42.6</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>978.3</td>
<td>858.7</td>
<td>667.5</td>
<td>520.9</td>
<td>431.6</td>
<td>270.0</td>
<td>205.1</td>
<td>166.2</td>
<td>140.7</td>
<td>123.1</td>
<td>98.6</td>
<td>81.3</td>
<td>43.0</td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>1018.0</td>
<td>891.2</td>
<td>695.0</td>
<td>540.5</td>
<td>444.6</td>
<td>277.6</td>
<td>208.8</td>
<td>169.2</td>
<td>143.3</td>
<td>124.8</td>
<td>99.8</td>
<td>82.1</td>
<td>43.4</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>1049.5</td>
<td>913.5</td>
<td>711.6</td>
<td>549.8</td>
<td>451.9</td>
<td>281.2</td>
<td>211.3</td>
<td>170.8</td>
<td>144.7</td>
<td>126.2</td>
<td>101.1</td>
<td>83.1</td>
<td>43.7</td>
</tr>
</tbody>
</table>
LPL Series - Long Life Standby

LPL2-400(2V400Ah)

Applications
- Tele-communication central station (wired or cellular)
- Power system communication, military communication, etc.
- Network communication including data transmission, television signal transmission, etc.
- Uninterruptable Power System (UPS- for Telecom)
- EPS

General Features
- 20 years design life
- 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
- Can be operated in upright, side, or end mounting orientation

Discharge Characteristics

![Discharge Characteristics Graph](image)

Float Charging Characteristics

![Float Charging Characteristics Graph](image)

Temperature Effects in Relation to Battery Capacity

![Temperature Effects Graph](image)

Design Life

![Design Life Graph](image)

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