**LPL Series-Long Life Standby**

**LPL12-200 (12V 200Ah)**

### Specifications

- **Rated Voltage**: 12V
- **Nominal Capacity**: 200.0 Ah (C₁₀, 1.80V/cell)

#### Dimension

- **Length**: 522 ± 3mm (20.55 inches)
- **Width**: 240 ± 3mm (9.45 inches)
- **Container Height**: 218 ± 3mm (8.58 inches)
- **Total Height**: 224 ± 3mm (8.81 inches)

#### Approx Weight

- **64.0 Kg (141.12 lbs)**

#### Terminal

- **M8**

#### Container Material

- **ABS**

#### Rated Capacity (25°C)

<table>
<thead>
<tr>
<th>Voltage (V/cell)</th>
<th>214.0 Ah</th>
<th>200.0 Ah</th>
<th>189.0 Ah</th>
<th>177.2 Ah</th>
<th>156.0 Ah</th>
</tr>
</thead>
<tbody>
<tr>
<td>(20hr, 10.7A, 1.80V/cell)</td>
<td>(10hr, 20.0A, 1.80V/cell)</td>
<td>(5hr, 37.8A, 1.75V/cell)</td>
<td>(3hr, 57.4A, 1.75V/cell)</td>
<td>(1hr, 156.0A, 1.60V/cell)</td>
<td></td>
</tr>
</tbody>
</table>

#### Max. Discharge Current

- **2000A (5s)**

#### Internal Resistance (25°C)

- **Approx 2.7mΩ**

#### 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 0A. Voltage 14.4V ~ 15.0V at 25°C (77°F). Temp. Coefficient -30mV/°C

#### Standby Use

Initial Charging Current less than 60.0A. Voltage 13.5V ~ 13.8V at 25°C (77°F). Temp. Coefficient -20mV/°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)

#### F.V./Time

<table>
<thead>
<tr>
<th>Voltage (V/cell)</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>295.6</td>
<td>272.1</td>
<td>233.8</td>
<td>194.9</td>
<td>144.4</td>
<td>120.6</td>
<td>68.8</td>
<td>52.4</td>
<td>42.5</td>
<td>34.3</td>
<td>30.1</td>
<td>22.5</td>
<td>19.4</td>
<td>10.3</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>377.7</td>
<td>328.8</td>
<td>276.4</td>
<td>230.0</td>
<td>168.0</td>
<td>135.0</td>
<td>75.1</td>
<td>56.4</td>
<td>45.3</td>
<td>36.9</td>
<td>32.3</td>
<td>23.7</td>
<td>20.0</td>
<td>10.7</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>415.0</td>
<td>359.1</td>
<td>297.3</td>
<td>238.8</td>
<td>174.3</td>
<td>141.3</td>
<td>77.9</td>
<td>57.4</td>
<td>46.5</td>
<td>37.8</td>
<td>33.2</td>
<td>24.5</td>
<td>20.5</td>
<td>11.0</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>452.4</td>
<td>383.4</td>
<td>312.5</td>
<td>248.5</td>
<td>181.3</td>
<td>145.8</td>
<td>80.9</td>
<td>59.0</td>
<td>47.6</td>
<td>38.8</td>
<td>33.9</td>
<td>25.6</td>
<td>21.3</td>
<td>11.3</td>
</tr>
</tbody>
</table>

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

#### F.V./Time

<table>
<thead>
<tr>
<th>Voltage (V/cell)</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>552.0</td>
<td>513.2</td>
<td>445.4</td>
<td>375.4</td>
<td>280.5</td>
<td>235.0</td>
<td>135.0</td>
<td>103.2</td>
<td>83.9</td>
<td>68.0</td>
<td>59.8</td>
<td>44.9</td>
<td>38.8</td>
<td>20.6</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>697.1</td>
<td>611.8</td>
<td>518.9</td>
<td>436.3</td>
<td>323.8</td>
<td>261.8</td>
<td>146.3</td>
<td>110.4</td>
<td>89.1</td>
<td>72.7</td>
<td>63.9</td>
<td>47.1</td>
<td>39.9</td>
<td>21.4</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>753.8</td>
<td>660.2</td>
<td>552.8</td>
<td>449.2</td>
<td>332.8</td>
<td>272.7</td>
<td>151.2</td>
<td>112.0</td>
<td>91.0</td>
<td>74.3</td>
<td>65.5</td>
<td>48.6</td>
<td>40.9</td>
<td>22.0</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>803.2</td>
<td>695.1</td>
<td>576.7</td>
<td>465.0</td>
<td>344.8</td>
<td>280.4</td>
<td>156.9</td>
<td>114.9</td>
<td>93.0</td>
<td>76.1</td>
<td>66.7</td>
<td>50.7</td>
<td>42.4</td>
<td>22.5</td>
</tr>
<tr>
<td>1.65V/cell</td>
<td>733.5</td>
<td>608.2</td>
<td>486.5</td>
<td>350.3</td>
<td>287.7</td>
<td>160.3</td>
<td>119.3</td>
<td>96.8</td>
<td>77.9</td>
<td>68.0</td>
<td>52.2</td>
<td>43.6</td>
<td>23.1</td>
<td></td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>771.6</td>
<td>640.8</td>
<td>510.1</td>
<td>363.2</td>
<td>296.4</td>
<td>164.9</td>
<td>122.4</td>
<td>96.7</td>
<td>80.3</td>
<td>69.2</td>
<td>53.1</td>
<td>44.5</td>
<td>23.5</td>
<td></td>
</tr>
</tbody>
</table>

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**Layout**

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**F.V./Time**

- 10min
- 15min
- 20min
- 30min
- 45min
- 1h
- 2h
- 3h
- 4h
- 5h
- 6h
- 8h
- 10h
- 20h

**Voltage Levels**

- 1.85V/cell
- 1.80V/cell
- 1.75V/cell
- 1.70V/cell
- 1.65V/cell
- 1.60V/cell

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**Battery Specifications**

- **Rated Voltage**: 12V
- **Nominal Capacity**: 200.0 Ah (C₁₀, 1.80V/cell)

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**Discharge Temperatures**

- **-15 ~ 50°C (5 ~ 122°F)**
- **0 ~ 40°C (32 ~ 104°F)**
- **-15 ~ 40°C (5 ~ 104°F)**

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**Storage Temperatures**

- **-15 ~ 40°C (5 ~ 104°F)**
- **25±3°C (77±5°F)**

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**Effect of Temperature on Capacity**

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

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**Self-Discharge**

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LPL Series - Long Life Standby
LPL12-200(12V200Ah)

Applications
- UPS and EPS
- Emergency light
- 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
- Temperature: 25°C

Float Charging Characteristics
- Charge Voltage: 2.25V/cell
- Temperature: 25°C

Temperature Effects in Relation to Battery Capacity
- Capacity (%)
- Battery temperature

Effect of Temperature on Long Term Float Life
- Float life (year)
- Battery temperature

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