LPL Series-Long Life Standby
LPL12-65(12V65Ah)

Specifications

**Rated Voltage**
12V

**Nominal Capacity**
65.0Ah (C10, 1.80V/cell)

**Dimensions**
- **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**
21.2 Kg (46.75 lbs)

**Terminal**
M6

**Container Material**
ABS

**Rated Capacity (25°C)**
- 68.2Ah (20hr, 3.41A, 1.80V/cell)
- 65.0Ah (10hr, 6.50A, 1.80V/cell)
- 59.0Ah (5hr, 11.8A, 1.75V/cell)
- 54.0Ah (3hr, 18.0A, 1.75V/cell)
- 41.4Ah (1hr, 41.4A, 1.60V/cell)

**Max. Discharge Current**
780A (5s)

**Internal Resistance (25°C)**
Approx 7.3mΩ

**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 5A. Voltage 14.4V=15.0V at 25°C(77°F) Temp. Coefficient -30mV/C

**Standby Use**
Initial Charging Current less than 19.5A. 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.

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**Constant Current Discharge (Amperes) 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>96.2</td>
<td>83.4</td>
<td>65.6</td>
<td>58.6</td>
<td>42.9</td>
<td>36.3</td>
<td>22.1</td>
<td>16.2</td>
<td>12.7</td>
<td>11.1</td>
<td>9.74</td>
<td>7.49</td>
<td>6.21</td>
<td>3.29</td>
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<tr>
<td>1.80V/cell</td>
<td>109.2</td>
<td>94.5</td>
<td>74.1</td>
<td>63.8</td>
<td>45.4</td>
<td>37.6</td>
<td>22.8</td>
<td>17.6</td>
<td>13.6</td>
<td>11.6</td>
<td>10.5</td>
<td>7.88</td>
<td>6.50</td>
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<td>1.75V/cell</td>
<td>118.4</td>
<td>102.3</td>
<td>80.0</td>
<td>65.1</td>
<td>47.1</td>
<td>39.5</td>
<td>24.1</td>
<td>18.0</td>
<td>13.8</td>
<td>11.8</td>
<td>10.5</td>
<td>7.92</td>
<td>6.57</td>
<td>3.45</td>
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<td>1.70V/cell</td>
<td>126.2</td>
<td>108.6</td>
<td>84.9</td>
<td>66.4</td>
<td>48.0</td>
<td>40.3</td>
<td>24.5</td>
<td>18.3</td>
<td>14.1</td>
<td>12.0</td>
<td>10.6</td>
<td>8.04</td>
<td>6.63</td>
<td>3.48</td>
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<td>1.65V/cell</td>
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<td>111.8</td>
<td>87.2</td>
<td>67.4</td>
<td>48.7</td>
<td>40.8</td>
<td>24.9</td>
<td>18.5</td>
<td>14.3</td>
<td>12.3</td>
<td>10.7</td>
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<td>3.53</td>
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<td>1.60V/cell</td>
<td>134.7</td>
<td>115.3</td>
<td>89.4</td>
<td>68.4</td>
<td>49.4</td>
<td>41.4</td>
<td>25.3</td>
<td>18.7</td>
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<td>8.26</td>
<td>6.79</td>
<td>3.57</td>
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**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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<tbody>
<tr>
<td>1.85V/cell</td>
<td>150.9</td>
<td>157.9</td>
<td>124.7</td>
<td>112.0</td>
<td>82.4</td>
<td>70.2</td>
<td>43.0</td>
<td>31.7</td>
<td>25.0</td>
<td>21.8</td>
<td>19.3</td>
<td>14.9</td>
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<tr>
<td>1.80V/cell</td>
<td>202.4</td>
<td>176.6</td>
<td>139.5</td>
<td>121.0</td>
<td>86.8</td>
<td>72.3</td>
<td>44.2</td>
<td>34.3</td>
<td>26.6</td>
<td>22.8</td>
<td>20.6</td>
<td>15.6</td>
<td>12.9</td>
<td>6.78</td>
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<tr>
<td>1.75V/cell</td>
<td>216.0</td>
<td>188.5</td>
<td>148.9</td>
<td>122.5</td>
<td>89.4</td>
<td>75.6</td>
<td>46.4</td>
<td>34.8</td>
<td>27.0</td>
<td>23.1</td>
<td>20.7</td>
<td>15.6</td>
<td>13.0</td>
<td>6.84</td>
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<tr>
<td>1.70V/cell</td>
<td>227.1</td>
<td>198.1</td>
<td>156.5</td>
<td>123.9</td>
<td>90.5</td>
<td>76.7</td>
<td>47.1</td>
<td>35.4</td>
<td>27.3</td>
<td>23.4</td>
<td>20.8</td>
<td>15.9</td>
<td>13.1</td>
<td>6.91</td>
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<tr>
<td>1.65V/cell</td>
<td>230.7</td>
<td>201.4</td>
<td>159.1</td>
<td>124.8</td>
<td>91.3</td>
<td>77.4</td>
<td>47.6</td>
<td>35.6</td>
<td>27.7</td>
<td>23.8</td>
<td>20.8</td>
<td>16.0</td>
<td>13.3</td>
<td>6.99</td>
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<tr>
<td>1.60V/cell</td>
<td>234.0</td>
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<td>161.3</td>
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<td>78.0</td>
<td>48.0</td>
<td>35.7</td>
<td>27.9</td>
<td>24.1</td>
<td>20.9</td>
<td>16.2</td>
<td>13.4</td>
<td>7.06</td>
</tr>
</tbody>
</table>
LPL Series-Long Life Standby
LPL12-65(12V65Ah)

Applications
- UPS and EPS
- Emergency power
- Railway signal and aircraft
- 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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