LPL Series-Long Life Standby
LPL2-300M(2V300Ah)

Specifications

<table>
<thead>
<tr>
<th>Rated Voltage</th>
<th>2V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Capacity</td>
<td>300.0 Ah (C100, 1.80 V/cell)</td>
</tr>
</tbody>
</table>
| Dimension | Length: 124±2mm (4.88 inches)  
Width: 181±2mm (7.13 inches)  
Container Height: 350±2mm (13.78 inches)  
Total Height: 365±2mm (14.37 inches) |
| Approx Weight | 17.9 Kg (39.5 lbs) |
| Terminal | M8 |
| Container Material | ABS |
| Rated Capacity (25°C) | 318.0 Ah (20hr, 15.9 A, 1.80 V/cell)  
300.0 Ah (10hr, 30.0 A, 1.80 V/cell)  
262.5 Ah (5hr, 52.5 A, 1.75 V/cell)  
234.0 Ah (3hr, 78.0 A, 1.75 V/cell)  
175.3 Ah (1hr, 175.3 A, 1.67 V/cell) |
| Max. Discharge Current | 2400 A (5 s) |
| Internal Resistance (25°C) | Approx. 0.60 mΩ |
| 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 0.0 A. Voltage 2.40 V ~ 2.50 V at 25°C (77°F) Temp. Coefficient -3 mV/°C |
| Standby Use | Initial Charging Current less than 0.0 A. Voltage 2.25 V ~ 2.30 V at 25°C (77°F) Temp. Coefficient -5 mV/°C |
| Effect of temp. to Capacity | 40°C (104°F)  
25°C (77°F)  
0°C (32°F) |
| 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>30min</th>
<th>1h</th>
<th>1.5h</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>1.85 V/cell</td>
<td>194.2</td>
<td>128.3</td>
<td>120.4</td>
<td>90.8</td>
<td>70.2</td>
<td>56.5</td>
<td>47.7</td>
<td>41.4</td>
<td>33.6</td>
<td>28.1</td>
<td>15.7</td>
</tr>
<tr>
<td>1.80 V/cell</td>
<td>213.6</td>
<td>153.0</td>
<td>124.4</td>
<td>96.7</td>
<td>76.0</td>
<td>60.9</td>
<td>51.3</td>
<td>44.4</td>
<td>36.0</td>
<td>30.0</td>
<td>15.9</td>
</tr>
<tr>
<td>1.75 V/cell</td>
<td>248.5</td>
<td>164.8</td>
<td>129.3</td>
<td>101.7</td>
<td>78.0</td>
<td>62.4</td>
<td>52.5</td>
<td>45.3</td>
<td>36.7</td>
<td>30.5</td>
<td>16.1</td>
</tr>
<tr>
<td>1.70 V/cell</td>
<td>267.9</td>
<td>172.7</td>
<td>134.9</td>
<td>104.6</td>
<td>80.3</td>
<td>64.0</td>
<td>53.7</td>
<td>46.3</td>
<td>37.3</td>
<td>30.9</td>
<td>16.3</td>
</tr>
<tr>
<td>1.67 V/cell</td>
<td>275.7</td>
<td>175.3</td>
<td>135.4</td>
<td>105.0</td>
<td>81.5</td>
<td>64.9</td>
<td>54.4</td>
<td>46.8</td>
<td>37.7</td>
<td>31.2</td>
<td>16.4</td>
</tr>
<tr>
<td>1.60 V/cell</td>
<td>278.9</td>
<td>183.8</td>
<td>140.8</td>
<td>109.4</td>
<td>84.7</td>
<td>65.8</td>
<td>55.4</td>
<td>47.6</td>
<td>38.0</td>
<td>31.6</td>
<td>16.5</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>F.V./Time</th>
<th>30min</th>
<th>1h</th>
<th>1.5h</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>1.85 V/cell</td>
<td>369.9</td>
<td>292.2</td>
<td>236.9</td>
<td>177.7</td>
<td>137.7</td>
<td>111.0</td>
<td>93.8</td>
<td>81.6</td>
<td>66.4</td>
<td>55.6</td>
<td>30.0</td>
</tr>
<tr>
<td>1.80 V/cell</td>
<td>398.0</td>
<td>306.8</td>
<td>241.7</td>
<td>186.4</td>
<td>148.4</td>
<td>119.2</td>
<td>100.8</td>
<td>87.3</td>
<td>71.0</td>
<td>59.3</td>
<td>31.6</td>
</tr>
<tr>
<td>1.75 V/cell</td>
<td>456.3</td>
<td>322.3</td>
<td>251.4</td>
<td>194.2</td>
<td>151.7</td>
<td>121.7</td>
<td>102.7</td>
<td>88.9</td>
<td>72.1</td>
<td>60.1</td>
<td>32.0</td>
</tr>
<tr>
<td>1.70 V/cell</td>
<td>485.4</td>
<td>326.9</td>
<td>256.8</td>
<td>199.0</td>
<td>155.4</td>
<td>124.4</td>
<td>104.8</td>
<td>90.5</td>
<td>73.3</td>
<td>60.9</td>
<td>32.3</td>
</tr>
<tr>
<td>1.67 V/cell</td>
<td>493.6</td>
<td>331.0</td>
<td>260.8</td>
<td>202.1</td>
<td>157.3</td>
<td>125.8</td>
<td>105.8</td>
<td>91.5</td>
<td>73.9</td>
<td>61.4</td>
<td>32.6</td>
</tr>
<tr>
<td>1.60 V/cell</td>
<td>524.1</td>
<td>343.7</td>
<td>270.1</td>
<td>208.9</td>
<td>162.1</td>
<td>129.3</td>
<td>108.6</td>
<td>93.6</td>
<td>75.4</td>
<td>62.6</td>
<td>33.1</td>
</tr>
</tbody>
</table>
LPL2-300M(2V300Ah)

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
- 16 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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