LPL Series-Long Life Standby
LPL12-12(12V12Ah)

Specifications

Rated Voltage
12V

Nominal Capacity
12.0Ah (C10, 1.75V/cell)

Dimension
Length: 151±2mm (5.95 inches)
Width: 98±1mm (3.86 inches)
Container Height: 95±1mm (3.74 inches)
Total Height: 101±2mm (3.98 inches)

Approx Weight
3.80 Kg (8.38 lbs)

Terminal
T2

Container Material
ABS

Rated Capacity (25°C)
- 12.00 Ah (20hr, 0.600A, 1.75V/cell)
- 11.60 Ah (10hr, 1.16A, 1.75V/cell)
- 10.65 Ah (5hr, 2.13A, 1.75V/cell)
- 9.39 Ah (3hr, 3.13A, 1.75V/cell)
- 7.89 Ah (1hr, 7.89A, 1.60V/cell)

Max. Discharge Current
180A (5s)

Internal Resistance (25°C)
Approx 18.0mΩ

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 6A. Voltage
14.4V~15.0V at 25°C/77°F Temp. Coefficient -30mV/C

Standby Use
Initial Charging Current less than 3.6A. 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)

<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>23.9</td>
<td>18.9</td>
<td>15.9</td>
<td>12.0</td>
<td>8.84</td>
<td>7.23</td>
<td>4.19</td>
<td>3.04</td>
<td>2.46</td>
<td>2.08</td>
<td>1.78</td>
<td>1.40</td>
<td>1.13</td>
<td>0.588</td>
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<td>1.80V/cell</td>
<td>25.1</td>
<td>19.7</td>
<td>16.4</td>
<td>12.4</td>
<td>9.02</td>
<td>7.36</td>
<td>4.26</td>
<td>3.08</td>
<td>2.49</td>
<td>2.11</td>
<td>1.80</td>
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<td>1.14</td>
<td>0.595</td>
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<td>1.75V/cell</td>
<td>26.3</td>
<td>20.4</td>
<td>16.9</td>
<td>12.6</td>
<td>9.20</td>
<td>7.49</td>
<td>4.32</td>
<td>3.13</td>
<td>2.53</td>
<td>2.13</td>
<td>1.82</td>
<td>1.43</td>
<td>1.16</td>
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<td>1.70V/cell</td>
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<td>21.1</td>
<td>17.4</td>
<td>12.9</td>
<td>9.37</td>
<td>7.62</td>
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<td>2.56</td>
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<td>21.6</td>
<td>17.7</td>
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<td>9.48</td>
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<td>18.4</td>
<td>13.5</td>
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<td>4.52</td>
<td>3.27</td>
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<td>2.22</td>
<td>1.89</td>
<td>1.48</td>
<td>1.20</td>
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Constant Power Discharge (Watts/cell) at 25°C (77°F)

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<thead>
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<th>F.V./Time</th>
<th>10min</th>
<th>15min</th>
<th>20min</th>
<th>30min</th>
<th>45min</th>
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<th>6h</th>
<th>8h</th>
<th>10h</th>
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<tbody>
<tr>
<td>1.85V/cell</td>
<td>45.7</td>
<td>36.4</td>
<td>30.7</td>
<td>23.3</td>
<td>17.2</td>
<td>14.1</td>
<td>8.21</td>
<td>5.97</td>
<td>4.84</td>
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<td>2.77</td>
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<tr>
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<td>31.5</td>
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<td>3.56</td>
<td>2.80</td>
<td>2.27</td>
<td>1.19</td>
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<tr>
<td>1.75V/cell</td>
<td>49.8</td>
<td>38.8</td>
<td>32.2</td>
<td>24.2</td>
<td>17.7</td>
<td>14.5</td>
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<td>6.12</td>
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<td>3.60</td>
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<td>2.29</td>
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<tr>
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<td>40.0</td>
<td>33.1</td>
<td>24.7</td>
<td>18.0</td>
<td>14.7</td>
<td>8.53</td>
<td>6.20</td>
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<td>3.64</td>
<td>2.86</td>
<td>2.32</td>
<td>1.21</td>
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<tr>
<td>1.65V/cell</td>
<td>53.0</td>
<td>40.7</td>
<td>33.5</td>
<td>25.0</td>
<td>18.1</td>
<td>14.8</td>
<td>8.60</td>
<td>6.25</td>
<td>5.05</td>
<td>4.28</td>
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<td>1.22</td>
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<td>42.2</td>
<td>34.6</td>
<td>25.6</td>
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<td>5.13</td>
<td>4.34</td>
<td>3.72</td>
<td>2.93</td>
<td>2.37</td>
<td>1.24</td>
</tr>
</tbody>
</table>
LPL Series-Long Life Standby
LPL12-12(12V12Ah)

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
- 10 ~ 12 years design life(20℃)
- 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

Float Service Life

Standards
- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch®IATF 16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

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