Specifications

Rated Voltage 2V
Nominal Capacity 1200.0Ah (C100, 1.80V/cell)

Dimension
- Length 440±2mm (17.32 inches)
- Width 181±2mm (7.13 inches)
- Container Height 350±2mm (13.78 inches)
- Total Height 365±2mm (14.37 inches)

Approx Weight 65.5 Kg (144.40 lbs)
Terminal M8

Container Material ABS

Rated Capacity (25°C)
- 1272.0Ah (20hr, 63.6A, 1.80V/cell)
- 1200.0Ah (10hr, 120.0A, 1.80V/cell)
- 1050.0 Ah (5hr, 210.0A, 1.75V/cell)
- 936.0 Ah (3hr, 312.0A, 1.75V/cell)
- 704.7 Ah (1hr, 704.7A, 1.67V/cell)

Max. Discharge Current 9600A (5s)
Internal Resistance (25°C) Approx 0.30mΩ

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 2.40V~2.50V at 25°C (77°F)
- Temp. Coefficient -3mV/°C

Standby Use
- Initial Charging Current less than 0A. Voltage 2.28V~2.30V at 25°C (77°F)
- Temp. Coefficient -5mV/°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>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>1.85V/cell</td>
<td>765.9</td>
<td>512.3</td>
<td>482.7</td>
<td>366.0</td>
<td>280.9</td>
<td>226.1</td>
<td>190.7</td>
<td>165.3</td>
<td>134.5</td>
<td>112.3</td>
<td>60.2</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>842.7</td>
<td>611.2</td>
<td>498.5</td>
<td>387.7</td>
<td>303.8</td>
<td>243.5</td>
<td>205.3</td>
<td>177.5</td>
<td>144.0</td>
<td>120.0</td>
<td>63.6</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>978.8</td>
<td>658.7</td>
<td>520.2</td>
<td>405.5</td>
<td>312.0</td>
<td>249.6</td>
<td>210.0</td>
<td>181.2</td>
<td>146.6</td>
<td>121.8</td>
<td>64.5</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>1055.5</td>
<td>762.3</td>
<td>542.0</td>
<td>418.0</td>
<td>321.2</td>
<td>255.8</td>
<td>214.8</td>
<td>185.3</td>
<td>149.2</td>
<td>123.7</td>
<td>65.2</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>1085.8</td>
<td>704.7</td>
<td>545.0</td>
<td>419.8</td>
<td>328.0</td>
<td>259.4</td>
<td>217.4</td>
<td>187.3</td>
<td>150.8</td>
<td>124.8</td>
<td>65.8</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>1133.9</td>
<td>732.4</td>
<td>549.7</td>
<td>438.9</td>
<td>338.0</td>
<td>268.0</td>
<td>224.2</td>
<td>192.7</td>
<td>154.4</td>
<td>127.7</td>
<td>66.7</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>1.85V/cell</td>
<td>1458.3</td>
<td>1151.8</td>
<td>935.5</td>
<td>713.3</td>
<td>550.5</td>
<td>444.0</td>
<td>375.1</td>
<td>326.1</td>
<td>265.9</td>
<td>222.6</td>
<td>119.9</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>1567.5</td>
<td>1210.3</td>
<td>955.0</td>
<td>748.4</td>
<td>593.3</td>
<td>476.8</td>
<td>403.0</td>
<td>348.9</td>
<td>284.0</td>
<td>237.2</td>
<td>126.5</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>1797.7</td>
<td>1272.6</td>
<td>992.0</td>
<td>779.6</td>
<td>606.5</td>
<td>487.0</td>
<td>410.8</td>
<td>354.5</td>
<td>286.7</td>
<td>240.3</td>
<td>127.8</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>1911.7</td>
<td>1291.6</td>
<td>1013.8</td>
<td>793.0</td>
<td>621.5</td>
<td>497.4</td>
<td>419.0</td>
<td>362.2</td>
<td>293.0</td>
<td>243.7</td>
<td>129.4</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>1944.5</td>
<td>1305.2</td>
<td>1027.2</td>
<td>799.0</td>
<td>629.0</td>
<td>503.3</td>
<td>423.4</td>
<td>365.8</td>
<td>295.8</td>
<td>245.5</td>
<td>130.2</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>2096.4</td>
<td>1374.7</td>
<td>1040.2</td>
<td>835.2</td>
<td>648.4</td>
<td>517.3</td>
<td>434.4</td>
<td>374.5</td>
<td>301.9</td>
<td>250.1</td>
<td>132.4</td>
</tr>
</tbody>
</table>
### 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

<table>
<thead>
<tr>
<th>Charging Current (A)</th>
<th>Temperature: 25°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.02C</td>
<td></td>
</tr>
<tr>
<td>0.04C</td>
<td></td>
</tr>
<tr>
<td>0.06C</td>
<td></td>
</tr>
<tr>
<td>0.08C</td>
<td></td>
</tr>
<tr>
<td>0.10C</td>
<td></td>
</tr>
</tbody>
</table>

### Float Charging Characteristics

<table>
<thead>
<tr>
<th>Charging Current (A)</th>
<th>Temperature: 25°C</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.1CA</td>
<td></td>
</tr>
<tr>
<td>0.25CA</td>
<td></td>
</tr>
<tr>
<td>0.5CA</td>
<td></td>
</tr>
<tr>
<td>1CA</td>
<td></td>
</tr>
</tbody>
</table>

### Standards
- Compliance with IEC 60896 standards, EU Battery Directive
- Manufactured in Leoch®IATF16949, OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

### Temperature Effects in Relation to Battery Capacity

<table>
<thead>
<tr>
<th>Battery Temperature (°C)</th>
<th>Capacity (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20</td>
<td>0%</td>
</tr>
<tr>
<td>-10</td>
<td>20%</td>
</tr>
<tr>
<td>0</td>
<td>40%</td>
</tr>
<tr>
<td>10</td>
<td>60%</td>
</tr>
<tr>
<td>20</td>
<td>80%</td>
</tr>
<tr>
<td>30</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Effect of Temperature on Long Term Float Life

<table>
<thead>
<tr>
<th>Battery Temperature (°C)</th>
<th>Float Life (years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>1</td>
</tr>
<tr>
<td>25</td>
<td>1.33</td>
</tr>
<tr>
<td>30</td>
<td>1.65</td>
</tr>
<tr>
<td>35</td>
<td>2</td>
</tr>
<tr>
<td>40</td>
<td>2.33</td>
</tr>
</tbody>
</table>

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  - E-mail: sales@leoch.com

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  - Fax: 949-588-5866
  - E-mail: sales@leoch.com
  - Web: www.leoch.us

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