PLH-Pure Lead Long Standby Life

PLH150FT(A) (12V150Ah)

Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Voltage</td>
<td>12V</td>
</tr>
</tbody>
</table>
| Nominal Capacity | C1, 1.80V/cell 150Ah  
                    C2, 1.75V/cell 150Ah |
| Dimension | Length | 559±2mm (22.0 inches)  
            Width | 247.9mm (9.76 inches)  
            Container Height | 277±2mm (10.9 inches)  
            Total Height | 277±2mm (10.9 inches) |
| Approx. Weight | 48.0 Kg (105.8 lbs) |
| Terminal | M6 |
| Container Material | PC-ABS flame retardant jar and cover to UL94 V-0 |
| Rated Capacity (25°C) | 159.0 Ah  
                         150.0 Ah  
                         132.5 Ah  
                         119.1 Ah  
                         101.2 Ah |
| Max. Discharge Current | 1800A |
| Internal Resistance (25°C) | Approx. 3.7mΩ(Fully charged) |
| Operating Temp.Range | Discharge -40 ~ -65°C (-40 ~ 149°F)  
                        Charge 0 ~ 40°C (32 ~ 104°F)  
                        Storage -20 ~ -40°C (-4 ~ 104°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F) |
| Max. Charging Current(25°C) | 45.0A |
| Charge voltage(25°C) | Float 13.62V |
| Equalization | -3mV/cell/°C  
                 14.1–14.4V |
| Effect of temp. to Capacity | 40°C (104°F) 103%  
                              25°C (77°F) 100%  
                              0°C (32°F) 86% |

Self Discharge

PLH series batteries can be stored up to 24 months at 25°C (77°F). For higher temperatures the time interval will be shorter. Battery needs to be given a refreshing charge when the OCV approach 2.10V/cell or when the maximum storage time is reached, whichever occurs first.

Constant Current Discharge (Amperes) at 25°C (77°F)

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>10 min</th>
<th>15 min</th>
<th>20 min</th>
<th>30 min</th>
<th>45 min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>268.7</td>
<td>230.4</td>
<td>198.4</td>
<td>152.1</td>
<td>113.6</td>
<td>90.7</td>
<td>51.0</td>
<td>37.0</td>
<td>28.6</td>
<td>24.7</td>
<td>17.9</td>
<td>14.5</td>
<td>7.69</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>300.2</td>
<td>250.6</td>
<td>212.4</td>
<td>160.8</td>
<td>119.1</td>
<td>94.8</td>
<td>53.3</td>
<td>38.6</td>
<td>30.9</td>
<td>25.8</td>
<td>18.5</td>
<td>15.0</td>
<td>7.95</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>323.4</td>
<td>266.1</td>
<td>224.4</td>
<td>186.8</td>
<td>133.3</td>
<td>97.9</td>
<td>54.6</td>
<td>39.8</td>
<td>31.7</td>
<td>26.5</td>
<td>18.8</td>
<td>15.2</td>
<td>8.07</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>347.5</td>
<td>280.5</td>
<td>233.1</td>
<td>172.3</td>
<td>126.4</td>
<td>99.8</td>
<td>55.7</td>
<td>40.4</td>
<td>32.1</td>
<td>26.9</td>
<td>18.9</td>
<td>15.4</td>
<td>8.14</td>
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<tr>
<td>1.67V/cell</td>
<td>369.4</td>
<td>293.8</td>
<td>240.1</td>
<td>175.5</td>
<td>128.1</td>
<td>101.2</td>
<td>56.4</td>
<td>41.0</td>
<td>32.5</td>
<td>27.1</td>
<td>19.0</td>
<td>15.5</td>
<td>8.20</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>393.1</td>
<td>305.3</td>
<td>247.9</td>
<td>180.2</td>
<td>130.5</td>
<td>103.0</td>
<td>57.2</td>
<td>41.5</td>
<td>32.9</td>
<td>27.4</td>
<td>19.2</td>
<td>15.6</td>
<td>8.25</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>F.V/Time</th>
<th>10 min</th>
<th>15 min</th>
<th>20 min</th>
<th>30 min</th>
<th>45 min</th>
<th>1h</th>
<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>8h</th>
<th>10h</th>
<th>20h</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>509.7</td>
<td>440.8</td>
<td>381.8</td>
<td>296.1</td>
<td>224.4</td>
<td>179.7</td>
<td>102.0</td>
<td>74.1</td>
<td>56.2</td>
<td>49.9</td>
<td>36.2</td>
<td>29.5</td>
<td>15.7</td>
</tr>
<tr>
<td>1.80V/cell</td>
<td>560.4</td>
<td>473.0</td>
<td>404.7</td>
<td>311.0</td>
<td>233.9</td>
<td>187.0</td>
<td>105.9</td>
<td>77.0</td>
<td>61.9</td>
<td>51.8</td>
<td>37.2</td>
<td>30.4</td>
<td>16.2</td>
</tr>
<tr>
<td>1.75V/cell</td>
<td>597.9</td>
<td>497.6</td>
<td>423.9</td>
<td>320.0</td>
<td>240.6</td>
<td>191.8</td>
<td>108.0</td>
<td>78.8</td>
<td>63.3</td>
<td>53.0</td>
<td>37.6</td>
<td>30.8</td>
<td>16.4</td>
</tr>
<tr>
<td>1.70V/cell</td>
<td>632.4</td>
<td>518.2</td>
<td>436.0</td>
<td>327.8</td>
<td>245.2</td>
<td>194.5</td>
<td>109.6</td>
<td>79.9</td>
<td>64.0</td>
<td>53.6</td>
<td>37.7</td>
<td>30.9</td>
<td>16.5</td>
</tr>
<tr>
<td>1.67V/cell</td>
<td>665.6</td>
<td>537.3</td>
<td>445.7</td>
<td>332.5</td>
<td>247.3</td>
<td>196.5</td>
<td>110.6</td>
<td>80.8</td>
<td>64.5</td>
<td>54.0</td>
<td>37.9</td>
<td>31.1</td>
<td>16.5</td>
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<tr>
<td>1.60V/cell</td>
<td>696.8</td>
<td>550.1</td>
<td>455.0</td>
<td>338.1</td>
<td>250.0</td>
<td>198.2</td>
<td>111.3</td>
<td>81.3</td>
<td>64.9</td>
<td>54.2</td>
<td>38.0</td>
<td>31.2</td>
<td>16.6</td>
</tr>
</tbody>
</table>
PLH-Pure Lead Long Standby Life
PLH150FT(A) (12V150Ah)

**Applications**
- Telecommunication
- Railway signal
- Alarm and security system
- Power station systems
- Emergency power supply

**General Features**
- 20 years design life (25°C)
- Premium ABS+PC jar & covers, Flame Retardant to UL94 V-0
- High-rate performance, high energy density
- High quality AGM separators minimize electrical resistance to allow high current discharging properties

**Discharge Characteristics**

**Float Charging Characteristics**

**Effects of Temperature on Discharging Time**

**Serial Life**

**Sales Offices Worldwide**

**China Sales Office**
5th Floor, Xinbaoshu Bldg., Nanhai Blvd., Nanhai, Shenzhen, China. 518352
Tel: +86-755-86266600 (100 lines)
Fax: +86-755-26067269
E-mail: export@leoch.com

**North America Sales Office**
Workshop C, 33/L, TML Tower, No. 3 Ho Shing Road, Tsuen Wan, New Territories, Hong Kong
Tel: +852 35786500
Fax: +1 44 1452 690125
E-mail: sales.hk@leoch.com

**Hong Kong Sales Office**
Workshop C, 33/F, TML Tower, No. 3 Ho Shing Road, Tsuen Wan, New Territories, Hong Kong
Tel: +852 35786500
Fax: +1 44 1452 690125
E-mail: sales.hk@leoch.com

**UK Sales Office**
9B Wheatstone Court, Watenevis, Business Park, Gloucester, GL2-2AQ, UK United Kingdom
Tel: +44(0)1452 724916 / 1452 730866
Fax: +44 1452 690125
E-mail: Sales.Europe@leoch.com

**Singapore Sales Office**
No. 1 Tech Park Crescent, Singapore 638131
Tel: +65 6863 6079
Fax: +65 6863 6079
E-mail: sales.sg@leoch.com

**EMEA Sales Office**
1 Deligiorgi St., 121 31 Athens, Greece
Tel: +30 210 5760318 (2 lines)
E-mail: support_EMEA@leoch.com

**Australia Sales Office**
2/20 Tarlington Place, Smithfield, NSW 2164
Australia
Tel: 02 9754 0950
E-mail: sales.au@leoch.com

**India Sales Office**
Shed no.A-53(b), 2nd Stage of Pivena Industrial Area, Bangalore North Taluk, Bangalore-560058, India
Tel: +91-80-23440018/23440019
Fax: +91-80-23440017
E-mail: indiasales@leoch.com

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Subject to revisions without prior notice.
Publication No.: LB-PLH150FT(A)-PD-EN-V3.3-202003