PLH+C-Pure Lead Carbon
PLH+C 62FT (12V62Ah)

Specifications

- **Rated Voltage**: 12V
- **Nominal Capacity**:
  - C20: 62Ah
  - C5: 62Ah
- **Dimension**:
  - Length: 298.7±2mm (11.76 inches)
  - Width: 97±2mm (3.82 inches)
  - Container Height: 287±2mm (10.51 inches)
  - Total Height: 287±2mm (10.51 inches)
- **Approx. Weight**: 19.5 Kg (43.0 lbs)
- **Terminal**: M6
- **Container Material**: PC-ABS flame retardant jar and cover to UL94 V-0

- **Rated Capacity (25°C)**:
  - 62.0 Ah (10hr, 6.20A, 1.60V/cell)
  - 62.0 Ah (8hr, 7.75A, 1.75V/cell)
  - 58.5 Ah (5hr, 11.7A, 1.75V/cell)
  - 53.1 Ah (3hr, 17.7A, 1.75V/cell)
  - 45.6 Ah (1hr, 45.6A, 1.67V/cell)

- **Max. Discharge Current**: 744A
- **Internal Resistance (25°C)**: Approx. 4.8mΩ (Fully charged)

- **Operating Temp. Range**:
  - Discharge: -40 to 65°C (-40 to 149°F)
  - Charge: 0 to 40°C (32 to 104°F)
  - Storage: -20 to 40°C (-4 to 104°F)

- **Nominal Operating Temp. Range**: 25±3°C (77±5°F)
- **Max Charging Current (25°C)**: 18.6A

- **Charge Voltage (25°C)**:
  - Float: 13.62V
  - Equalization: 14.1 to 14.4V

- **Effect of temp. to Capacity**:
  - 40°C (104°F): 103%
  - 25°C (77°F): 100%
  - 0°C (32°F): 88%

- **Self Discharge**:
  - PLH+C 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 freshening 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>118.3</td>
<td>97.4</td>
<td>83.3</td>
<td>65.3</td>
<td>49.8</td>
<td>40.6</td>
<td>23.8</td>
<td>17.0</td>
<td>13.8</td>
<td>11.3</td>
<td>7.51</td>
<td>6.14</td>
<td>3.29</td>
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<tr>
<td>1.80V/cell</td>
<td>130.0</td>
<td>105.6</td>
<td>89.5</td>
<td>69.1</td>
<td>52.1</td>
<td>42.1</td>
<td>24.3</td>
<td>17.3</td>
<td>14.0</td>
<td>11.5</td>
<td>7.65</td>
<td>6.20</td>
<td>3.37</td>
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<tr>
<td>1.75V/cell</td>
<td>142.1</td>
<td>113.9</td>
<td>95.8</td>
<td>73.0</td>
<td>54.5</td>
<td>43.7</td>
<td>24.9</td>
<td>17.7</td>
<td>14.3</td>
<td>11.7</td>
<td>7.75</td>
<td>6.35</td>
<td>3.44</td>
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<tr>
<td>1.70V/cell</td>
<td>152.9</td>
<td>121.0</td>
<td>97.2</td>
<td>71.2</td>
<td>56.4</td>
<td>45.0</td>
<td>25.4</td>
<td>17.9</td>
<td>14.5</td>
<td>11.9</td>
<td>7.85</td>
<td>6.41</td>
<td>3.49</td>
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<tr>
<td>1.67V/cell</td>
<td>158.7</td>
<td>124.6</td>
<td>103.2</td>
<td>77.7</td>
<td>57.3</td>
<td>45.6</td>
<td>25.6</td>
<td>18.0</td>
<td>14.5</td>
<td>11.9</td>
<td>7.92</td>
<td>6.41</td>
<td>3.51</td>
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<tr>
<td>1.60V/cell</td>
<td>169.2</td>
<td>130.5</td>
<td>107.2</td>
<td>79.8</td>
<td>58.4</td>
<td>44.4</td>
<td>25.9</td>
<td>18.3</td>
<td>14.7</td>
<td>12.1</td>
<td>8.06</td>
<td>6.54</td>
<td>3.53</td>
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</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>
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</thead>
<tbody>
<tr>
<td>1.85V/cell</td>
<td>224.1</td>
<td>184.0</td>
<td>159.3</td>
<td>121.0</td>
<td>92.9</td>
<td>75.3</td>
<td>44.1</td>
<td>33.5</td>
<td>27.1</td>
<td>22.5</td>
<td>14.9</td>
<td>12.2</td>
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<tr>
<td>1.80V/cell</td>
<td>241.4</td>
<td>195.1</td>
<td>168.3</td>
<td>126.8</td>
<td>94.3</td>
<td>76.8</td>
<td>45.1</td>
<td>33.9</td>
<td>27.8</td>
<td>22.7</td>
<td>15.0</td>
<td>12.4</td>
<td>6.70</td>
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<tr>
<td>1.75V/cell</td>
<td>252.8</td>
<td>202.2</td>
<td>173.4</td>
<td>130.0</td>
<td>96.3</td>
<td>78.2</td>
<td>45.7</td>
<td>34.5</td>
<td>28.0</td>
<td>22.9</td>
<td>15.2</td>
<td>12.5</td>
<td>6.86</td>
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<tr>
<td>1.70V/cell</td>
<td>263.8</td>
<td>209.1</td>
<td>178.3</td>
<td>133.1</td>
<td>97.6</td>
<td>78.4</td>
<td>46.3</td>
<td>34.9</td>
<td>28.4</td>
<td>23.1</td>
<td>15.4</td>
<td>12.6</td>
<td>6.87</td>
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<tr>
<td>1.67V/cell</td>
<td>275.9</td>
<td>212.2</td>
<td>180.4</td>
<td>134.4</td>
<td>97.5</td>
<td>79.0</td>
<td>47.2</td>
<td>35.1</td>
<td>28.5</td>
<td>23.5</td>
<td>15.5</td>
<td>12.7</td>
<td>6.96</td>
</tr>
<tr>
<td>1.60V/cell</td>
<td>284.7</td>
<td>217.6</td>
<td>182.8</td>
<td>136.8</td>
<td>98.8</td>
<td>79.9</td>
<td>47.5</td>
<td>35.4</td>
<td>28.8</td>
<td>23.7</td>
<td>15.6</td>
<td>13.1</td>
<td>6.92</td>
</tr>
</tbody>
</table>
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Applications
- Backup Power
- Grid-connected Energy Storage System
- Off-grid Energy Storage System
- Demand charge reduction
- Time-of-Use bill management

General Features
- High energy density
- Low internal resistance and self-discharge rate
- Excellent fast charging acceptance: 1.5 hours to 90% SOC
- Excellent high rate discharge performance in low temperature
- Super high PSoC cycle life

Standards
- Compliance with IEC 60896 standards
- Manufactured in Leoch@IATF16949,
  OhSAS 18001, ISO 9001 and ISO 14001
  certified production facilities

Discharge Characteristics

Temperature in Relation to Capacity

Cycle Life vs. Depth of Discharge

Self-discharge Characteristics

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