PLH+C-Pure Lead Carbon
PLH+C 210FT (12V210Ah)

Specifications

Rated Voltage
12V

Nominal Capacity
C<sub>20</sub> 1.80V/cell 210Ah
C<sub>1.75V/cell</sub> 210Ah

Dimension
Length 559±1mm (22.01 inches)
Width 125±1mm (4.92 inches)
Container Height 328±1mm (12.91 inches)
Total Height 328±1mm (12.91 inches)

Approx. Weight
60.5 Kg (133.4 lbs)

Terminal
M8

Container Material
PC-ABS flame retardant jar and cover to UL94 V-0

Rated Capacity (25°C)
210.0 Ah (10hr, 21.0A, 1.80V/cell)
210.0 Ah (8hr, 26.3A, 1.75V/cell)
196.5 Ah (5hr, 39.3A, 1.75V/cell)
173.7 Ah (3hr, 57.9A, 1.75V/cell)
144.3 Ah (1hr, 144.3A, 1.67V/cell)

Max. Discharge Current
2520A

Internal Resistance (25°C)
Approx. 2.6mΩ (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)
63.0 A

Charge Voltage (25°C)
Float 13.62V
Temp. Coefficient -3mV/cell°C
Equalization 14.1~14.4V

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.</th>
<th>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>352.8</td>
<td>294.0</td>
<td>294.6</td>
<td>295.6</td>
<td>205.6</td>
<td>157.6</td>
<td>128.6</td>
<td>76.6</td>
<td>55.0</td>
<td>48.4</td>
<td>37.5</td>
<td>25.0</td>
<td>20.4</td>
<td>10.7</td>
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<tr>
<td>1.80V/cell</td>
<td>399.6</td>
<td>319.2</td>
<td>293.5</td>
<td>218.2</td>
<td>166.5</td>
<td>135.4</td>
<td>79.5</td>
<td>56.9</td>
<td>47.0</td>
<td>38.7</td>
<td>25.8</td>
<td>21.0</td>
<td>10.8</td>
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</tr>
<tr>
<td>1.75V/cell</td>
<td>415.8</td>
<td>336.0</td>
<td>396.1</td>
<td>237.9</td>
<td>172.2</td>
<td>139.7</td>
<td>81.2</td>
<td>57.9</td>
<td>47.9</td>
<td>39.3</td>
<td>26.3</td>
<td>21.3</td>
<td>10.8</td>
<td></td>
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<tr>
<td>1.70V/cell</td>
<td>441.0</td>
<td>352.8</td>
<td>308.7</td>
<td>236.1</td>
<td>177.1</td>
<td>142.9</td>
<td>82.4</td>
<td>58.1</td>
<td>48.3</td>
<td>39.8</td>
<td>26.5</td>
<td>21.6</td>
<td>10.9</td>
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<tr>
<td>1.67V/cell</td>
<td>466.2</td>
<td>369.6</td>
<td>321.3</td>
<td>240.2</td>
<td>179.4</td>
<td>144.3</td>
<td>83.1</td>
<td>59.0</td>
<td>48.6</td>
<td>40.0</td>
<td>26.7</td>
<td>21.8</td>
<td>11.0</td>
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<tr>
<td>1.60V/cell</td>
<td>491.4</td>
<td>378.0</td>
<td>327.6</td>
<td>245.8</td>
<td>182.2</td>
<td>148.4</td>
<td>83.6</td>
<td>59.3</td>
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<td>40.2</td>
<td>26.8</td>
<td>21.8</td>
<td>11.1</td>
<td></td>
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</table>

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

<table>
<thead>
<tr>
<th>F.V.</th>
<th>Time</th>
<th>10 min</th>
<th>15 min</th>
<th>20 min</th>
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<th>45 min</th>
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<th>2h</th>
<th>3h</th>
<th>4h</th>
<th>5h</th>
<th>8h</th>
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<th>20h</th>
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<td>501.9</td>
<td>453.7</td>
<td>391.7</td>
<td>278.6</td>
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<td>488.2</td>
<td>372.8</td>
<td>286.3</td>
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<td>96.4</td>
<td>82.6</td>
<td>69.0</td>
<td>50.1</td>
<td>41.3</td>
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<tr>
<td>1.75V/cell</td>
<td>719.3</td>
<td>570.9</td>
<td>509.6</td>
<td>385.3</td>
<td>293.6</td>
<td>240.5</td>
<td>138.6</td>
<td>96.5</td>
<td>83.6</td>
<td>69.1</td>
<td>50.5</td>
<td>41.6</td>
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<tr>
<td>1.70V/cell</td>
<td>748.7</td>
<td>595.7</td>
<td>528.2</td>
<td>396.3</td>
<td>300.5</td>
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<td>138.9</td>
<td>96.9</td>
<td>84.5</td>
<td>69.2</td>
<td>50.8</td>
<td>41.9</td>
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<td>1.67V/cell</td>
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<td>84.9</td>
<td>69.5</td>
<td>50.9</td>
<td>42.3</td>
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<tr>
<td>1.60V/cell</td>
<td>798.7</td>
<td>627.2</td>
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<td>407.5</td>
<td>303.3</td>
<td>249.3</td>
<td>142.1</td>
<td>98.0</td>
<td>85.1</td>
<td>69.8</td>
<td>51.0</td>
<td>42.7</td>
<td>22.1</td>
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</tr>
</tbody>
</table>
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PLH+C 210FT (12V210Ah)

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: 1.5hour 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® AT16949,
  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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Subject to revisions without prior notice.
Publication No.: LS-PLH+C 210FT-FS-EN-V3.1-201905