Voltronix®USA, Inc.
The Heart of Alternative Energy
Lithium Ion Batteries

Voltronix®USA, Inc.
(866) 777-2329 | voltronixusa.com
3.2v Battery Cell

Typical Specifications:
- Operating Voltage: 2.5-4.0
- Max Charge Current: \( \leq 3 \)C
- Max Discharge Current (Continuous): \( \leq 3 \)C
- Operating Temperature: -45°C ~ 85°C
- Cycle Life: (80%DOD): 2,000
- Energy Density 230-380 Wh/L
- Discharge Rate: \( \leq 3 \)% Monthly
- Nominal Voltage: 3.2
- Standard Charge/Discharge Current: 0.5C
- Max Discharge Current (Impulse): \( \leq 20 \)C
- Temperature Durability of Case: 200°C
- Cycle Life: (70%DOD): 3,000
- Specific Power: 600-1,000 W/Kg

<table>
<thead>
<tr>
<th>Model #</th>
<th>Capacity Ah</th>
<th>Weight</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
<th>Overall Height</th>
<th>Terminal spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>V-LFP10Ah</td>
<td>10</td>
<td>0.38</td>
<td>70.0</td>
<td>27.0</td>
<td>101.0</td>
<td>113.0</td>
<td>39.0</td>
</tr>
<tr>
<td>V-LFP20Ah</td>
<td>20</td>
<td>0.65</td>
<td>70.0</td>
<td>27.0</td>
<td>101.0</td>
<td>113.0</td>
<td>39.0</td>
</tr>
<tr>
<td>V-LFP40Ah</td>
<td>40</td>
<td>1.50</td>
<td>116.0</td>
<td>50.0</td>
<td>181.0</td>
<td>183.0</td>
<td>61.0</td>
</tr>
<tr>
<td>V-LFP60Ah</td>
<td>50</td>
<td>2.30</td>
<td>115.0</td>
<td>50.0</td>
<td>181.0</td>
<td>183.0</td>
<td>61.0</td>
</tr>
<tr>
<td>V-LFP90Ah</td>
<td>90</td>
<td>3.0</td>
<td>143.0</td>
<td>50.0</td>
<td>215.0</td>
<td>218.0</td>
<td>82.0</td>
</tr>
<tr>
<td>V-LFP100Ah</td>
<td>100</td>
<td>3.5</td>
<td>179.0</td>
<td>50.0</td>
<td>214.0</td>
<td>218.0</td>
<td>106.0</td>
</tr>
<tr>
<td>V-LFP150Ah</td>
<td>150</td>
<td>5.3</td>
<td>209.0</td>
<td>50.0</td>
<td>276.0</td>
<td>280.0</td>
<td>120.0</td>
</tr>
<tr>
<td>V-LFP200Ah</td>
<td>200</td>
<td>7.3</td>
<td>209.0</td>
<td>50.0</td>
<td>276.0</td>
<td>280.0</td>
<td>120.0</td>
</tr>
<tr>
<td>V-LFP260Ah</td>
<td>260</td>
<td>8.7</td>
<td>142.0</td>
<td>50.0</td>
<td>275.0</td>
<td>283.0</td>
<td>114.0</td>
</tr>
<tr>
<td>V-LFP300Ah</td>
<td>300</td>
<td>9.6</td>
<td>142.0</td>
<td>50.0</td>
<td>290.0</td>
<td>306.0</td>
<td>120.0</td>
</tr>
<tr>
<td>V-LFP400Ah</td>
<td>400</td>
<td>13.5</td>
<td>181.0</td>
<td>50.0</td>
<td>277.0</td>
<td>285.0</td>
<td>240.0</td>
</tr>
<tr>
<td>V-LFP700Ah</td>
<td>700</td>
<td>21.0</td>
<td>246.0</td>
<td>50.0</td>
<td>280.0</td>
<td>306.0</td>
<td>120.0</td>
</tr>
<tr>
<td>V-LFP1000Ah</td>
<td>1000</td>
<td>33.0</td>
<td>334.0</td>
<td>50.0</td>
<td>366.0</td>
<td>375.0</td>
<td>Special</td>
</tr>
<tr>
<td>V-LFP1000AhC</td>
<td>1000</td>
<td>35.0</td>
<td>334.0</td>
<td>50.0</td>
<td>356.0</td>
<td>356.0</td>
<td>68</td>
</tr>
<tr>
<td>V-LFP1000AhA</td>
<td>10000</td>
<td>350.0</td>
<td>738.55</td>
<td>50.0</td>
<td>756.0</td>
<td>756.0</td>
<td>Special</td>
</tr>
</tbody>
</table>

NOTE: Some variance may occur.
Voltronix™
The Heart of Alternative Energy

CHARGE & DISCHARGE CHARTS

Discharge curves under different loads at normal temperature

Cycle life under normal temperature

Discharge curves under different temperatures

Self discharge rate under normal temperature

Proud to Offer
the Orion BMS
from Ewert Energy Systems

The Orion BMS is a professional grade lithium ion battery management system designed to be robust and programmable for nearly any application that uses lithium ion batteries. Its centralized design provides a very high level of immunity to the electrical noise that often plagues BMS systems. Fully programmable parameters and a wide operating voltage range make it usable with any lithium ion battery chemistry.

Features:
- Reporting of voltages, current, temperature, state-of-charge, and pack health
- Intelligent low loss cell balancing
- Centralized design – no cell top boards
- Designed specifically for high EMI immunity
- Very low power sleep mode
- 2 fully programmable CANBUS interfaces
- Stored Freeze Frame data for quick problem diagnosis
- Redundant design for high reliability
- Pre-emptive current limit calculations for smooth operation
- Integrates with many motor controllers, chargers, and 3rd party graphical displays
- CRDZ compatible for diagnostics and data reporting
- Well suited for standby power (UPS) and alternative energy storage
- Many other advanced features

Specifications:
- Cell measurement voltage: 0.5 - 6v
- Voltage resolution about 1.5mV
- 4 - 160 cells in series supported by a single unit
- CANBUS speeds: 125, 250, 500, 1000 Kbps
- Temperature range: -40 to +80C
- Cell voltage sampling rate: 30mS typical (all cells)
- Power supply active current: 3 watts typical (total system)
- Power supply sleep current: 650 uA typical
Applications

- Transportation
- Recreational Vehicles
- Military
- Power Backup/Energy Storage
- Medical Devices

Recycling Program

Voltronix is proud to announce a Lithium Ion Battery Recycling Program.

As we are committed to manufacturing and providing green products, we now offer a recycling program for the Voltronix Lithium Ion batteries used by our customers. By recycling our batteries, we complete the circle for green products and provide a clean alternative to the standard land fill disposal. To encourage the green effort, our recycling program will be offered free of charge. Please consult with one of our Green Team Technicians for details. Thank you for your continued support to help promote a clean environment!

Warranty
1-4 years depending on the application

Voltronix®USA, Inc.
(866) 777-2329 | voltronixusa.com