ELECTRICAL SPECIFICATIONS

- Nominal Capacity: 75Ah
- Nominal Voltage: 12.8V
- Discharge Energy: 960Wh
- Max. Charge Current: 75A
- Standard Cont. Discharge Current @25°C: 37.5A
- Max. Cont. Discharge Current @25°C: 75A
- Max. Pulse Discharge Current @55°C: 150A
- DC Resistance: ≤15mΩ

MECHANICAL SPECIFICATIONS

- Dimensions (L x W x H): 260 x 168 x 212mm
- Weight: 11kg / 24.2lbs
- Terminal Type: M6
- Chemistry: LiFePO4

PERFORMANCE SPECIFICATIONS

- 100% DoD Cycles @ 25°C, 1C/1C: ≥2000
- Voltage Limit: 8.0V ~ 14.6V
- Charge Temperature Range: 0°C ~ 45°C
- Discharge Temperature Range: -20°C ~ 55°C

BATTERY MGMT. SYSTEM SPECIFICATIONS

- Short Circuit Protection: YES
- Over Charge Protection: 15.2V ± 100mV (≤1.2s)
- Reconnect Voltage: 14.4V ± 200mV
- Over Discharge Protection: 8V ± 320mV (≤150ms)
- Reconnect Voltage: 10V ± 400mV
- Balancing Voltage: 14.4V ± 100mV (72mA ± 10mA)
- Over Temperature Protection: 65°C ± 5°C (48°C ± 10°C release)
- Over Current Protection: 260A - 340A (≤70ms)

Note: maximum of 4 (packs) in series = 51.2v Nominal Charge
Also, maximum of 2 batteries in parallel.

Why Lithium Ion Technology?

Small Footprint / More Portable
- Up to 50% smaller and lighter than traditional SLA

Extended Battery Life
- 5-10 years vs. 18-24 mos. for SLA

12x Shelf Life Between Mandatory Charges

High Efficiency Charging
- 25% faster re-charge time vs. SLA

Increased Cycles - 5-10 times more than SLA

No Maintenance Required

Lower Cost of Ownership
- Li-ion is 50% less expensive over the lifetime of the battery vs. SLA

#551115

75Ah 12.8v
BATTERY PERFORMANCE vs. SLA

**CYCLE LIFE @ 1C - LI-ION VS. SLA**

<table>
<thead>
<tr>
<th>Capacity (%)</th>
<th>SLA Battery (300) Cycles</th>
<th>Li-ion Battery (8k) Cycles</th>
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</thead>
<tbody>
<tr>
<td>100</td>
<td></td>
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<tr>
<td>90</td>
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<td>80</td>
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<td>70</td>
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<tr>
<td>60</td>
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</tbody>
</table>

**DISCHARGE CURVE - LI-ION VS. SLA**

Li-ion provides 50% more usable power

**LI-ION VS. SLA INVESTMENT COMPARISON**

**LITHIUMION**

Li-ion provides consistent power 1-2 times longer than SLA and at a fraction of the cost (over the life of the battery)

$ = 5-10 yr.

**SEALED LEAD ACID**

The average SLA battery requires replacement every 18-24 months (increasing overall costs)

$$+ = 5-10 yr.

**MECHANICAL DRAWINGS (mm)**

**COMPLIANCE SPECIFICATIONS**

Certifications | UN38.3, CE
Shipping Classifications | UN3480, Class 9
Product Number | 551115

Note: maximum of 4 (packs) in series = 51.2v Nominal Charge
Also, maximum of 2 batteries in parallel.

ElectroVolt is a Vertical Partners West company. VPW has nearly 20 years experience providing power solutions and is an ideal partner for your OEM, Commercial, and Industrial projects. As a U.S. based supplier VPW offers well-vetted, high-quality manufacturing and testing facilities in Asia and at our U.S. headquarters in Idaho.