**ELECTRICAL SPECIFICATIONS**

- Nominal Capacity: 100Ah
- Nominal Voltage: 12.8V
- Discharge Energy: 1.28kWh
- Max. Charge Current: 100A
- Standard Cont. Discharge Current @25°C: 60A
- Max. Cont. Discharge Current @25°C: 100A
- Max. Pulse Discharge Current @55°C: 200A
- DC Resistance: ≤10mΩ

**MECHANICAL SPECIFICATIONS**

- Dimensions (L x W x H): 327 x 172 x 218mm (12.9 x 6.8 x 8.6in)
- Weight: 14kg / 30.8lbs
- Terminal Type: M8
- Chemistry: LiFePO₄

**PERFORMANCE SPECIFICATIONS**

- 100% DoD Cycles @ 25°C, 1C/1C: ≥2000
- Voltage Limit: 9.2V ~ 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: 15.4V ± 100mV (≤1.5s)
- Reconnect Voltage: 14.6V ± 200mV
- Over Discharge Protection: 9.2V ± 320mV (≤150ms)
- Reconnect Voltage: 14.4V ± 100mV (52mA ± 10mA)
- Balancing Voltage: 14.4V ± 100mV (52mA ± 10mA)
- Over Temperature Protection: 70°C ± 5°C (50°C ± 12°C release)
- Over Current Protection: 300A (≤20ms)

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

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**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
**BATTERY PERFORMANCE vs. SLA**

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

![Graph comparing cycle life of Li-ion vs. SLA batteries](image)

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

**LITHIUM ION**

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)**

![Mechanical drawings for Li-ion and SLA batteries](image)

**COMPLIANCE SPECIFICATIONS**

- **Certifications**: UN38.3, CE
- **Shipping Classifications**: UN3480, Class 9
- **Product Number**: 551116

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.