



## 12V 300Ah LiFePO4 Heated Monobloc Battery

### Performance

|                                |   |
|--------------------------------|---|
| Voltage                        | 12V                                     |
| Capacity                       | 300Ah                                   |
| Efficiency                     | 99%                                     |
| Self-Discharge Maximum         | 3% per month                            |
| Cycles                         | 6,000 cycles at 80% DoD                 |
| Built-in BMS                   | Internal                                |
| Resistance                     | < 30 mΩ                                 |
| Usable DoD                     | 100%                                    |
| Parallel and Series Connection | 16 in Parallel or 4 Parallel - 4 Series |

### Mechanical

|                         |                              |
|-------------------------|------------------------------|
| Dimensions              | 19.69" L x 10.43" W x 9.2" H |
| Weight                  | 82.67 Lbs.                   |
| Terminal Type           | Threaded Insert              |
| Terminal Hole           | M8 Bolt                      |
| Terminal Torque         | 8-12Nm                       |
| Case Material           | ABS+PC Fire Rated            |
| Cell Type - Electrolyte | LiFePO4                      |
| IP Rating               | IP67                         |

### Certifications

|                |  |
|----------------|--|
| Certifications | UN38.3, UL 1973 Recognized Component, IEC62619, CE |
| Cell           | UN38.3, UL9540A, UL1642                            |
| Shipping Class | UN38.3, UN3480, Class 9                            |

### Charging

|                                  |                      |
|----------------------------------|----------------------|
| Recommended Charge Current       | 150A                 |
| Max Charge Current               | 300A                 |
| Absorption Voltage               | 14.2 - 14.6V         |
| Float Voltage                    | 13.6 - 13.8V         |
| Absorption Time                  | 60 minutes per 100Ah |
| BMS Cell Balancing Voltage Range | 13.4 - 14.6V         |
| Temperature Compensation         | Not Required         |

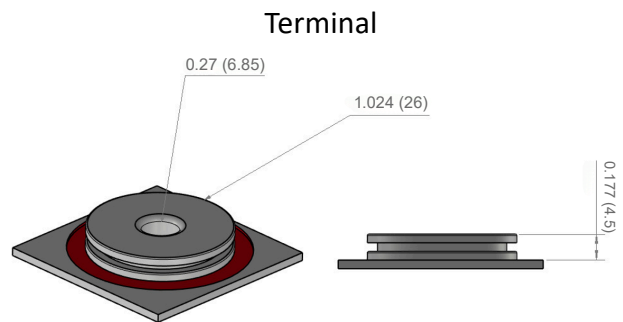
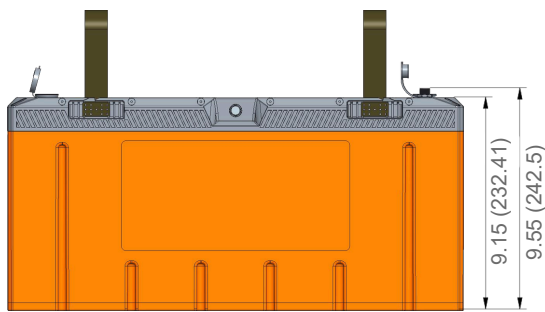
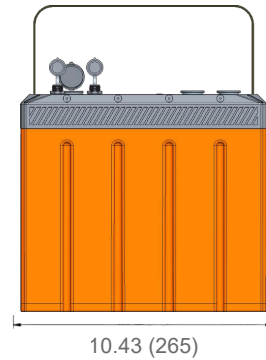
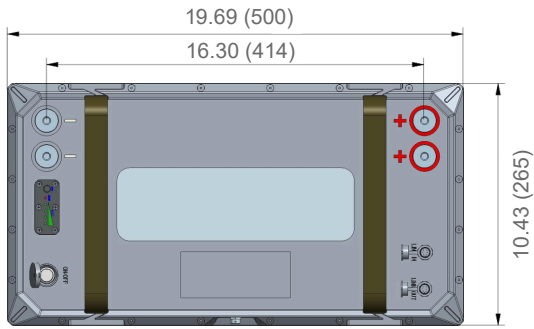
### Discharging

|                               |               |
|-------------------------------|---------------|
| Recommended Discharge Current | 150A          |
| Max Discharge                 | 300A          |
| Peak/Surge Current Limit      | 1000A for 5S  |
| Recommended LVD               | 11 - 11.6V    |
| BMS Discharge Voltage Cut-Off | 10.6 - 11V    |
| Reconnect Voltage             | 11.8 - 12.2V  |
| Short Circuit Protection      | Yes           |
| Short Circuit Protection      | 1200A / 500us |

### Temperature

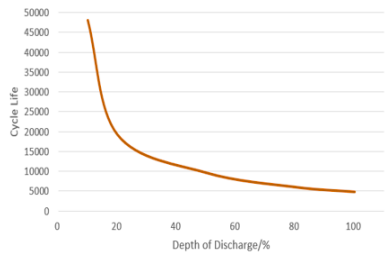
|                              |                            |
|------------------------------|----------------------------|
| Operational Temperature      | -4° to 140°F (-20 to 60°C) |
| Discharge Temperature        | -4° to 140°F (-20 to 60°C) |
| Charge Temperature           | -4° to 140°F (-20 to 60°C) |
| Storage Temperature          | 59° to 95°F (15° to 35°C)  |
| BMS High Temperature Cut-Off | 149°F (65°C)               |
| BMS Reconnect (Charge)       | 113°F (45°C)               |
| BMS Reconnect (Discharge)    | 122°F (50°C)               |

# Product Outline\*

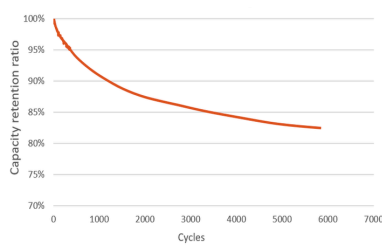


\*Inch (mm)

### Cycle life vs DoD



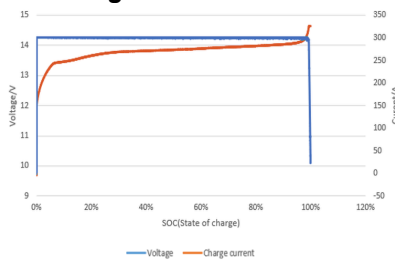
### 0.5C @ 80% DoD Cycle Life



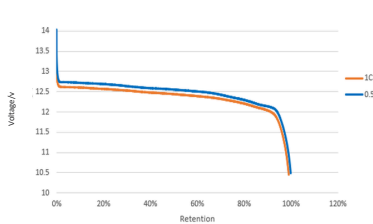
### -4°F (-20°C) 24h Heating Duty



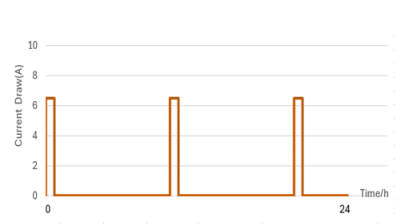
### 1C Charge Characteristics @ 25°C



### Discharge Curve at Different Rates @ 25°C



### 14°F (-10°C) 24h Heating Duty



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