

# FORTRESS POWER

## eVault Max 18.5 Lithium Battery Storage



**UL 9540  
UL 9540A  
UL 1973**



The newest innovative Lithium Iron Phosphate battery from Fortress Power is the eVault Max 18.5 kWh. An all-in-one solution for your residential and commercial needs. Scalable up to 370kWh with a serviceable top cover access to make installation of this battery simple and worry free. The eVault Max is AC/DC coupled to solar arrays and works for many applications that require solar storage, including Off-Grid, Back Up Power, Self-Supply, Peak Charge Reduction, and Demand Response, just to name a few.

### We Provide You The Largest Single Residential Battery On The Market With Easy Installation!

- Safe Lithium Iron Phosphate Technology (LiFePO4)
- High Durability and Long-Lasting
- Closed Loop Communication with Inverters
- Scalable from 18.5 kWh – 370 kWh
- Intelligent Digital Processor Based Battery Management System (BMS)
- Advanced cell level monitoring and balancing
- IP55 Aluminum Industrial Grade Enclosure
- Touch screen LCD performance display

| Electrical Specifications           |                   |
|-------------------------------------|-------------------|
| Nominal Voltage                     | 51.2V             |
| Nominal Capacity                    | 360AH             |
| Rated Capacity @ 0.5C (180A)        | 18.43 kWh         |
| Resistance                          | <10 mΩ            |
| Communication Protocol              | CAN/RS485         |
| Efficiency (at 0.5C)                | 98%               |
| Cell Self-Discharge                 | <1% / Month       |
| Maximum Allowed Modules in Parallel | 20 (370 kWh)      |
| Depth of Discharge                  | Up to 100%        |
| Warranty                            | 10 Years          |
| Cycle Life                          | 8,000 (@ 80% DoD) |

| Charge Specifications         |       |
|-------------------------------|-------|
| Recommended Charge Current    | 150A  |
| Maximum Charge Current        | 180A  |
| Recommended Charge Voltage    | 54.4V |
| BMS Charge Voltage Disconnect | >56V  |

| Discharge Specifications              |                      |
|---------------------------------------|----------------------|
| Recommended Continuous Discharge Rate | 180A (9.2 KW)        |
| Peak Discharge Rate                   | 230A (12 KW 30 min)  |
| Maximum Surge Power Rate              | 250A (12.8 kW 5 sec) |
| Recommended Low Voltage Disconnect    | 48V                  |
| Battery Low Voltage Protection        | <46V                 |
| Battery Recovery Voltage              | 47V                  |

| Mechanical Specifications |   |
|---------------------------|---|
| Dimensions: (L*W*H)       | 20.3" x 20.3" x 42.2"<br>(515 x 515 x 1073mm)                             |
| Weight                    | 520 lbs (235.87 kg)   |
| Terminal Type             | M10   |
| Ring Terminal Size        | 1/2" or larger  |
| Terminal Torque           | 7.0 - 7.7 Nm (5.1 - 5.7 ft - lb)  |
| Case Material             | Industrial Grade Aluminum   |
| Enclosure Protection      | IP55  |
| Cell Type Chemistry       | Tier 1 Automotive Prismatic - LiFePO <sub>4</sub><br>BreakerHigh Curreent |

| Compliance Specifications: |  |
|----------------------------|--|
| Certifications             | UL1642, UL1973, UL9540, UL9540A, CEC, SGIP |
| Shipping Classification    | UN 38.3. UN 3480, Class 9                  |

| Basic Charging Profile   |  |
|--------------------------|--|
| Bulk + Absorb Charge     | 54.4V  |
| Absorb Time              | 60 Minutes   |
| Float Charge             | 54V  |
| Inverter Charging        | 2 Stage / No Float                                       |
| Equalization             | No equalization (typical)<br>54.6V for 10 seconds (rare) |
| Temperature Compensation | None   |

| Temperature Specifications |   |
|----------------------------|---|
| Discharge Temperature      | -4°F~140°F (-20°C ~ 60°C)   |
| Charge Temperature         | 32°F ~ 120°F (0°C ~ 49°C)   |
| Storage Temperature        | 6 months: 14°F ~ 77°F (-10°C ~ 25°C)<br>3 months: -4°F ~ 113°F (-20°C ~ 45°C) |



[www.FortressPower.com](http://www.FortressPower.com)

Sales@FortressPower.com · 877-497-6937 · 505 Keystone Road, Southampton, PA 18966, USA

## ABOUT FORTRESS POWER

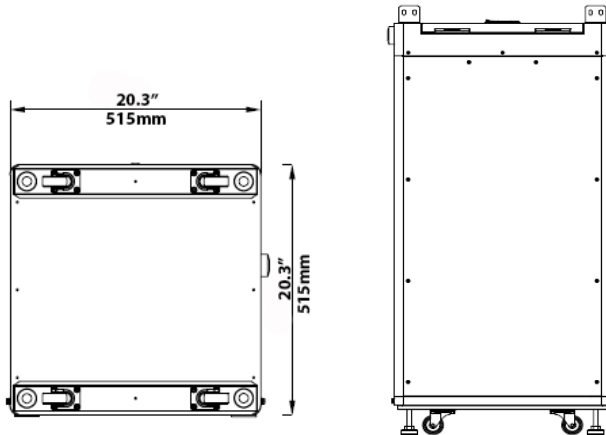
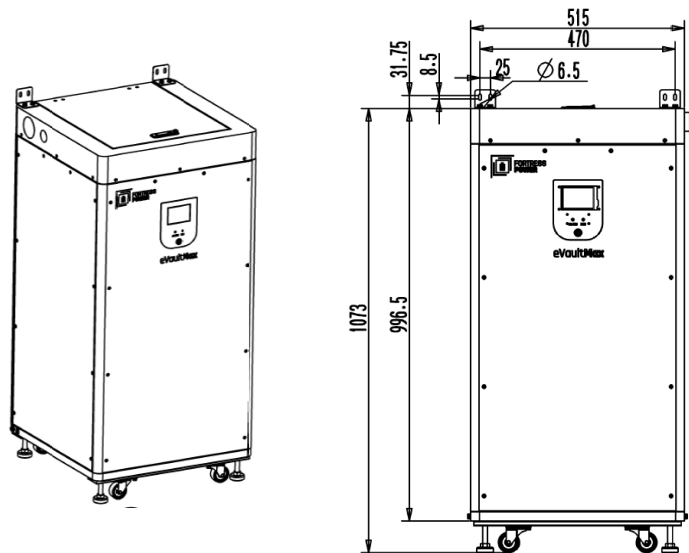
Fortress Power proudly services homes, businesses, utilities, telecom and transportation companies worldwide. Our Pennsylvania-based team's passion for clean energy storage has earned us a place among the world's top energy storage battery manufacturers.

Our logistics centers located across the country offer easy distribution to all of our major markets. Fortress Power's high-performance solar lithium battery storage products are designed, engineered and inventoried along with live technical support in the United States.

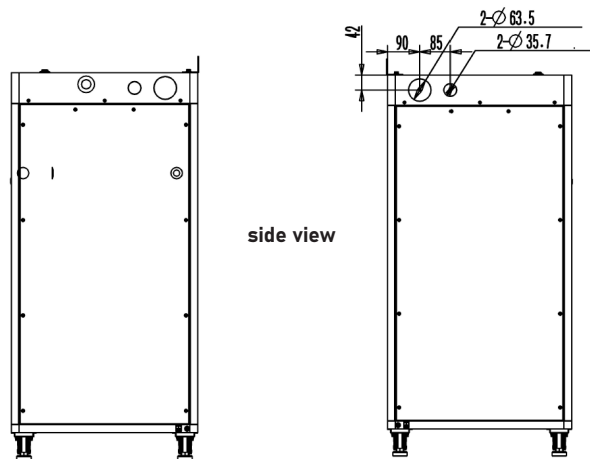
Fortress Power has partnered with industry leading lending institutions to help make your solar investment as easy as possible.

Please visit our website for purchasing and financing options.

[www.fortresspower.com](http://www.fortresspower.com)



back view



side view

INTERESTED IN  
BECOMING AN  
AUTHORIZED  
DEALER?

SCAN ME



**FORTRESS  
POWER**  
Secure your energy

LATEST  
INVERTER  
INTEGRATION  
MANUAL

SCAN ME



[www.FortressPower.com](http://www.FortressPower.com)

Sales@FortressPower.com · 877-497-6937 · 505 Keystone Road, Southampton, PA 18966, USA