FORTRESS Power
SECURE YOUR ENERGY

eFLEX 5.4

LITHIUM ION PHOSPHATE BATTERY

Fortress Power announces the **eFlex** 5.4 kWh scalable energy storage battery solution. The unit uses safe and high energy density prismatic Lithium-Iron-Phosphate cells. The battery has a built-in data storage and Wi-Fi for remote monitoring and troubleshooting ability. The smart relay-based Battery Management System (BMS), supports closed-loop communication with various 48V hybrid inverters on the market. Additionally, the BMS monitors and balances the voltage and temperature of each individual cell to maximize reliability and longevity. It has the highest round trip efficiency in the industry at 98%. This unit has wall mounting functionality and fits well into standard server racks for large systems.

- 98% Roundtrip efficiency
- High Durability and Long-Lasting
- Safe Lithium Iron Phosphate Technology (LiFeP04)

- Remote Monitoring
- Cell level Monitoring and Balancing
- Close-loop communication with many hybrid inverters

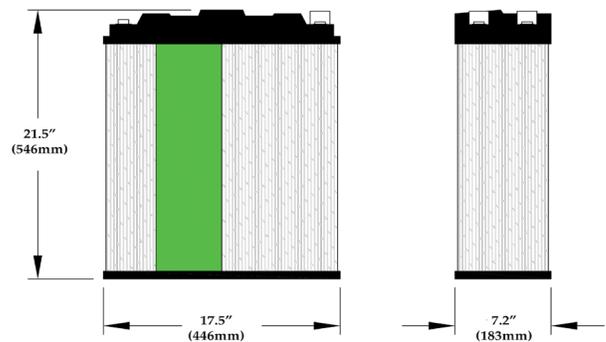| Electrical Specifications	
Nominal Voltage:	51.2V
Nominal Capacity:	105AH
Rated Capacity @ 0.5C (50A):	5.374 kWh
Resistance:	<30 mΩ
Efficiency:	>98%
Self-Discharge:	<0.8%/Month
Maximum Allow Modules in Parallel (Customizable Per Request):	15

Charge Specifications	
Recommended Charge Current:	<55A
Maximum Charge Current:	100A
Recommended Charge Voltage:	54.4V
BMS Charge Voltage Disconnect:	59V

Discharge Specifications	
Recommended Continuous Discharge Rate:	<68A (3.5KW DC)
Peak Continuous Discharge Rate:	100A (5 KW 60 Min)
Maximum Surge Power Rate:	130A (6.6 KW 5S)
Recommended Low Voltage Disconnect:	48V
Battery Low Voltage Protection:	41V
Battery recovery Voltage:	45V

Temperature Specifications		
Discharge Temperature:	32° ~ 131°F	(0°C ~ 55°C)
Charge Temperature:	32° ~ 113°F	(0°C ~ 45°C)
Storage Temperature:	32° ~ 95°F	(0°C ~ 35°C)

Mechanical Specifications	
Dimensions: (L*W*H)	21.5*17.5*7.2 inches (546*446*183 mm)
Weight:	108lbs (49kg)
Terminal Type:	M8
Case Material:	Aluminum
Enclosure Protection:	IP65
Cell Type - Chemistry:	Prismatic - LiFeP0$_4$

Compliance Specifications:	
Certifications:	UL1973, UL1642(cells)
Shipping Classification:	UN 38.3 CLASS 9 (Lithium Ion Battery)

Do not mix with lead acid batteries when recycling.

FRONT VIEW

21.5" (546mm)

17.5" (446mm)

7.2" (183mm)

TOP VIEW   SIDE VIEW