



# 12-Volt / 50Ah Elite Series Lithium

Lithium Iron Phosphate LiFePO<sub>4</sub>

## Lithium Iron Phosphate LiFePO<sub>4</sub> Advantages

The Safest Lithium Chemistry \* High DC Voltage Distribution Improves Equipment Efficiency \* Lighter than Conventional Batteries  
\* Maximum Cycle Life \* Steady Voltage / Current Output = Performance

## Elite Series Key Features

Built-In BMS (Battery Management System): This Ensures Consistent Cell Monitoring During Charge & Discharge Cycles Resulting in a Safe & Accurate Operation\* Protection Against Overcharge \* Protection Against Over Discharge \* Protection Against Short Circuit

Mechanical Specifications	
BCI Group Size	U1
Length	7.75" / 197mm (± 2mm)
Width	5.25" / 131mm (± 2mm)
Height	7" / 180mm (± 2mm)
Approximate Weight	12 lbs. / 5.5 kg
Case	ABS Plastic
Terminal Type	M8
Terminal Torque Setting	135-165 in lbs. / 15.3-18.6N*M
Enclosure Protection	IP65

Electrical Specifications	
Nominal Voltage	12.8V
Rated Capacity	50Ah @ 0.2C
Power	640W
Cycle Life	≥ 3000 @ 0.2C
Cell Type	Prismatic / Cylindrical
Bluetooth Function	Optional
Display Screen	Optional
Max. Model in Series	4

Charging Specifications	
Charge Method (CC-CV)	Constant Current - Constant Voltage
Recommended Charge Current	7A ~ 17.5A (0.2C ~ 0.5C)
Maximum Charge Current	35A @ 1C
Recommended Charge Voltage	14.2V ~ 14.6V
Charging Cut-Off Voltage	14.6V

Discharge Specifications	
Maximum Continuous Discharge Current	35A
Peak Discharge Current	70A @ <10s
BMS Discharge Voltage Cut-Off	10V
Reconnect Voltage	10.5V

Shipping & Recycle Information	
Shipping Classification	UN3480, CLASS 9
Recycle Program	Yes

Temperature Specifications	
Charge Temperature	32°F ~ 131°F / 0 ~ 55C
Discharge Temperature	4°F ~ 149°F / -20°C ~ 65°C
Storage Temperature	32°F ~ 113°F / 0°C ~ 45°C



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# **12-Volt / 50Ah Elite Series Lithium**

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## **Product Storage:**

If the battery pack needs to be stored for a long time, charge the battery for 50% capacity (after discharge, charge by charger for 2~3h every 3 months).

Battery pack and the charger should be stored in clean, dry and ventilated place, and should not be together with corrosive materials. Keep the battery away from fire and any heat source.

## **Product Transportation:**

Battery pack and charger should be transported after packaging, and should avoid severe vibrating, impacting, extrusion, and direct light and rain. They can be transported with automobile, train, ship and plane, etc.

- a) The battery pack should be stored in a 40%~60% state-of-charge.
- b) In the process of maintenance, don't assemble and disassemble the battery without permission, otherwise, the performance of battery will descend.
- c) Don't disassemble the battery without permission.
- \* Do not immerse the battery into water or seawater.
- \* Do not use, leave or charge the battery near a heat source such as fire or a heater.
- \* Do not inversely connect positive and negative poles.
- \* Do not put the battery in fire or heat the battery in any fashion.
- \* Do not short-circuit the battery with wires or other metals.
- \* Do not pierce the shell with nails or other sharp objects. Do not hammer or tread the pack.
- \* Do not disassemble the pack and battery in any way.
- \* Do not put the battery pack in microwave oven or pressure vessels.
- \* Do not use the battery in an extremely thermal environment.

Otherwise, the battery will overheat and the performance and life of battery will be influenced.

\* If the battery leaks or smells, move it away from open fire. The battery can be used after Fully Charging prior to the first use.

\* If the battery pack smells, fevers, contorts out of shape, changes color or any other abnormal phenomena, the battery can't be used. If the battery is being charged or used, please take it out of the charger and or electrical circuit & equipment.

\* If the battery leaks and the electrolyte get into the eye, do not rub eye. Instead, rinse eye with clean water, and seek medical attention immediately.