



36-Volt / 105Ah Elite Series Lithium

Lithium Iron Phosphate LiFePO₄

Lithium Iron Phosphate LiFePO₄ 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	4D
Length	20.55" / 522mm (± 2mm)
Width	9.5" / 240mm (± 2mm)
Height	8.58" / 218mm (± 2mm)
Approximate Weight	68.5lbs / 31kg
Case	ABS Plastic
Terminal Type	M8
Terminal Torque Setting	135-165 in lbs. / 15.3-18.6N*M
Enclosure Protection	IP67

Electrical Specifications	
Nominal Voltage	38.4V
Rated Capacity	105Ah @ 0.2C
Power	4.032kW
Cycle Life	≥ 3000 @ 0.2C
Cell Type	Prismatic
Bluetooth Function	Yes
Display Screen	Optional
Max. Model in Series	1 (Single Use)

Charging Specifications	
Recommended Charge Current	30A ~ 40A (0.2C ~ 0.5C)
Maximum Charge Current	100A @ 1C
Recommended Charge Voltage	42.6V ~ 43.8V
Charging Cut-Off Voltage	43.8V

Discharge Specifications	
Maximum Continuous Discharge Current	160A
Peak Discharge Current	350A @ <35s
BMS Discharge Voltage Cut-Off	30V
Reconnect Voltage	31.5V

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

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



11801 28th St. N., Unit #2, St. Petersburg, FL 33716 * 13747 65th Street North, Largo, FL 33771

(727) 250-2788 / (941) 243-1460 * Sales@storedpowersolutions.com * <https://storedpowersolutions.com>



36-Volt / 105Ah Elite Series Lithium

Lithium Iron Phosphate LiFePO₄

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.