

# User Manual

**Pony Energy**

LiFePO4 E-Bike Battery



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# Disclaimer

Before using the lithium iron phosphate battery (hereinafter referred to as the "battery") product, please read this disclaimer carefully. This statement aims to clarify the responsibilities of the relevant parties during the use of the battery and to protect the legal rights of all parties involved.

## 1. Product Information and Risk Notification

- The lithium iron phosphate battery is manufactured according to CE and QMSC. However, the performance and safety of the battery may be affected by various factors, including but not limited to environmental temperature, usage methods, charging conditions, and storage conditions.

- Users should be aware that improper use of the battery may lead to dangerous situations such as overheating, fire, explosion, and leakage, which can cause serious harm to personal safety and property.

## 2. User Responsibility

- The user is responsible for ensuring that the use, charging, and storage of the battery comply fully with the user manual, operating guide, and relevant safety regulations provided with this product. In particular, the user must use a charger compatible with the battery and perform charging operations within the specified charging parameters.

- Throughout the battery's lifecycle, the user should regularly inspect the battery's appearance and connection status. If any abnormalities (such as bulging, leakage, odor, etc.) are found, the user should stop using it immediately and handle it properly according to safety procedures.

- The user is not permitted to disassemble, modify, repair, or use non-original parts of the battery without authorization. The user will be solely responsible for any consequences resulting from such actions.

## 3. Manufacturer/Seller Liability Limitation

- The manufacturer and seller have made every effort to ensure that the battery meets safety and quality standards under normal usage conditions. However, the manufacturer and seller shall not be liable for any direct or indirect responsibility, including but not limited to personal injury compensation, property damage compensation, and business interruption losses caused by the user's violation of usage instructions, force majeure, or unforeseeable external factors.

- To the maximum extent permitted by law, the warranty service provided by the manufacturer and seller for the battery product is limited to the quality defects of the product itself, and such quality defects must appear under normal usage and maintenance conditions. Damage caused by improper use or other user responsibilities is not covered by the warranty.

## Scope of Application

This manual applies to e-bike batteries manufactured by Pony Energy®, including the 48Volt series and 60Volt series. All products covered in this manual comply with CE and QMSC certifications and have passed international safety standards, including UN38.3 and MSDS.

## Usage Precautions

- **Correct Installation:** E-bike batteries are equipped with either a C13 connector or an Anderson connector. If your e-bike interface supports direct connection, simply plug in the battery. Otherwise, use the provided adapter cable and ensure correct polarity—red for positive, black for negative. Insulate and waterproof the connection area to ensure safe use and prevent damage.
- **Charging:** Always use the charger provided with your e-bike. Charge in a dry, ventilated area and disconnect immediately when fully charged (indicated by green LED)
- **Temperature Requirements:** Optimal performance range: 0°C to 45°C. Avoid direct sunlight exposure while riding or parking.
- **Safe Usage:** Never modify battery casing to fit non-compatible frames. Protect battery from heavy impacts during riding. Immediately power off if the e-bike controller shows error codes. Monthly inspection of mounting brackets and connectors

## Maintenance and Care

- **Regular Charging:** If the battery is unused for extended periods, perform a maintenance charge (to 50%~70%) every 1~2 months to prevent deep discharge.
- **Storage Charge:** For long-term storage, maintain the battery level at 50%~70% (never store at full charge or empty).
- **Environmental Requirements:** Store the battery in a dry and cool environment. The ideal storage temperature is 15°C to 25°C.
- **Cleaning:** Use a dry cloth to gently wipe the battery surface. Avoid using chemical cleaners.

## Transportation and Storage

- **Transportation Regulations:** During transportation, ensure that the battery is packed according to national regulations to avoid short circuits or damage.
- **Storage Location:** Store in a location away from heat sources, fire, and chemicals. Avoid direct sunlight.
- **Shockproof Measures:** Ensure that the battery is packed with shockproof materials during transportation to prevent damage from vibrations.

## Product Specifications

Model	48V30Ah	60V30Ah
Battery Type	Lithium Iron Phosphate	
Nominal Voltage	51.2V	64V
Nominal Capacity	30Ah	30Ah
Charging Voltage	58.4V	73V
Operating Voltage	40-58.4V	50-73V
Cut-off Voltage	40V	50V
Max Discharge Current	50A	60A
Support Max Motor Power	1000W	1500W
Max Charging Current	30A	30A
Recommend Charging Current	≤6A	≤6A
Cycle Life	2500 cycles (DOD100%)	
Series or Parallel Connection	Not Supported	

## SOC Voltage Reference Data

The SOC-Volt data is based on battery discharge conditions at 30A-50A. Due to the physical characteristics of LiFePo4 cells, the battery capacity and voltage may vary under different loads. This data is for reference only.

SOC/Volt	48Volt Series	60Volt Series
100%	53.6V-54.4V	67V-68V
80%-100%	52.12V-53.6V	64.75V-67V
60%-80%	51.88V-52.12V	64.2V-64.75V
40%-60%	51.55V-51.88V	63.85V-64.2V
20%-40%	51V-51.55V	62.75V-63.85V
0-20%	40V-51V	50-62.75V

## Warranty Policy

- **Warranty Period:** The battery comes with a one-year warranty from the date of purchase.
- **Warranty Coverage:** The warranty includes coverage for product quality issues and manufacturing defects that may arise during normal use. It does not cover damage caused by misuse, unauthorized modifications, or environmental factors.
- **After-Sales Service:** If there are any issues within the warranty period, please contact Pony Energy's after-sales service center with proof of purchase and a description of the problem. We will handle it promptly.
- **Return and Exchange Policy:** If you find any quality issues within 30 days of receiving the battery, you can apply for a return or exchange. Please refer to Pony Energy's return and exchange policy for details.



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