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› WEIZE Lithium LiFePO4 Motorcycle Battery User Manual

WEIZE YTX9

WEIZE Lithium LiFePO4 Motorcycle Battery User Manual

Model: YTX9, YTX12, YTX7 (400A LiFePO4)

INTRODUCTION

Thank you for choosing the WEIZE Lithium LiFePO4 Motorcycle Battery. This manual provides essential information for the safe and efficient use, installation, and maintenance of your new battery. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your battery.



Image: WEIZE Lithium LiFePO4 Motorcycle Battery, 400 CCA.

PRODUCT OVERVIEW

Key Features

- **High Performance:** 400 CCA (Cold Cranking Amps) for reliable starting power.
- **Long Lifespan:** Designed for 2,000+ charge cycles and 50,000+ starts, offering 5X longer life than traditional lead-acid batteries.
- **Lightweight Design:** Approximately 40% the mass of comparable lead-acid batteries, weighing 3.39 pounds.
- **Built-in BMS:** Integrated Battery Management System provides active protection against over-charge, over-discharge, over-current, short-circuiting, and extreme temperatures.
- **Maintenance-Free:** Requires no activation, no acid, no water, and no regular maintenance. Comes fully charged and ready to install.
- **Enhanced Safety:** Made from 100% safe and non-toxic materials, offering higher chemical stability and will not overheat or catch fire, even if punctured.
- **Wide Compatibility:** Suitable for motorcycles, ATVs, UTVs, tractors, generators, scooters, personal watercraft (Seadoo, Jet Ski), and snowmobiles.

What's in the Box

- 1 x WEIZE Lithium LiFePO4 Motorcycle Battery
- 2 x Modular Trays (for adjustable sizing)

SPECIFICATIONS

Attribute	Value
Product Model	Lithium-Phosphate 4AH Battery (BAC-0105)
Nominal Voltage	12.8V
Capacity	4AH
Cold Cranking Amps (CCA)	400A
Energy	51.2Wh
Dimensions (L x W x H)	5.95 in x 3.43 in x 3.66 in
Item Weight	3.39 Pounds
Terminal Type	M6
Terminal Polarity	Left: Positive (+), Right: Negative (-)
Charge Temperature Range	-20°C to +45°C
Discharge Temperature Range	-20°C to +60°C
Cycle Life	2,000+ cycles
Starts	50,000+
Waterproof Rating	IP67 Level

Dimensions



Image: Detailed dimensions of the WEIZE Lithium LiFePO4 Motorcycle Battery.



Voltage :
12.8Volt



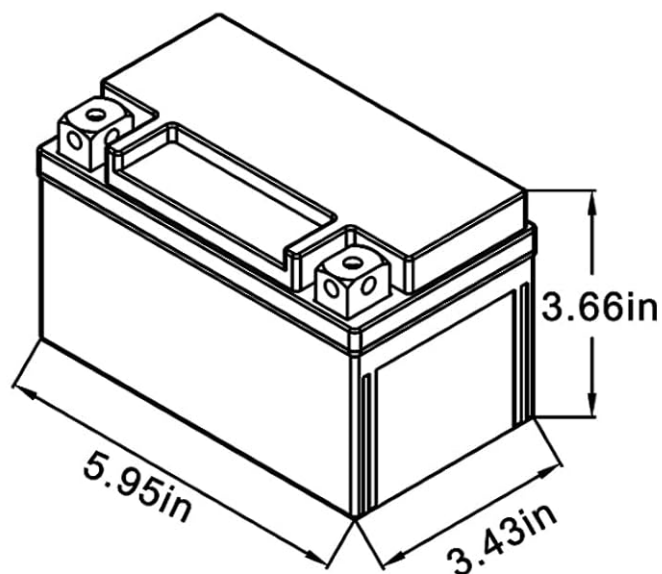
Capacity
4AH



Terminal:
M6

Image: Visual representation of battery voltage (12.8V), capacity (4AH), and M6 terminal type.

Battery Dimensions



Terminal Dimensions

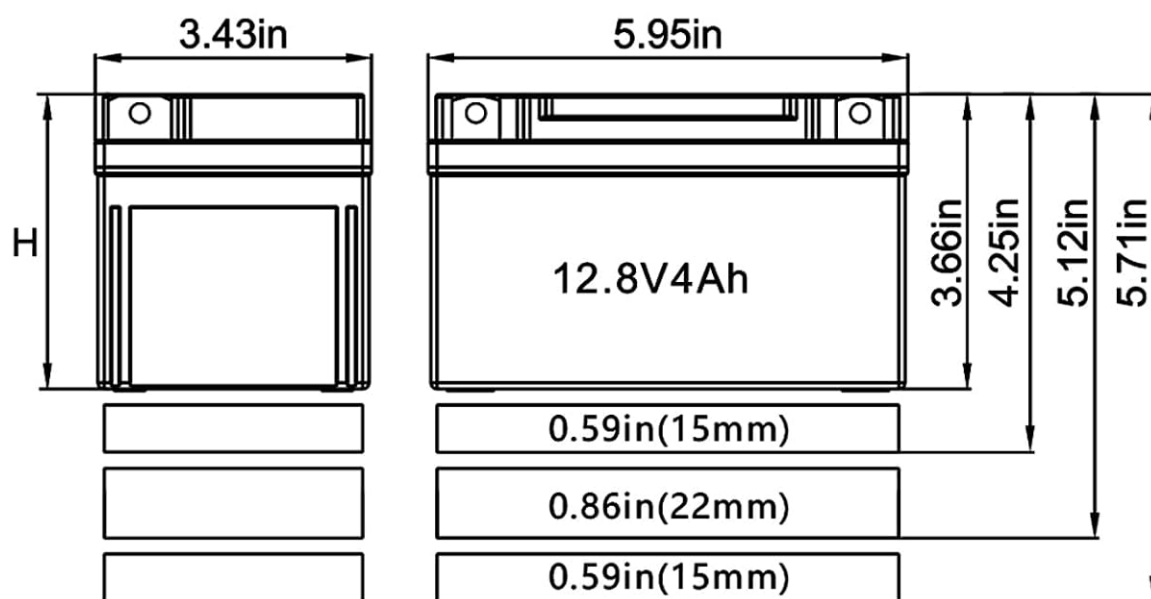
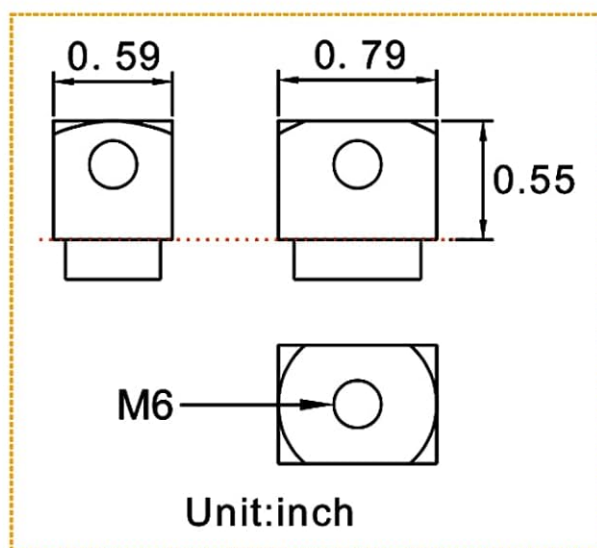


Image: Technical diagram showing battery and terminal dimensions, including modular tray heights for various battery sizes (TX7, TX9, TX12).

SETUP & INSTALLATION

The WEIZE LiFePO4 battery comes fully charged and ready for installation. Ensure your vehicle's electrical system is compatible with a 12V LiFePO4 battery. Always disconnect the negative terminal first when removing the old battery and connect the positive terminal first when installing the new battery.

Installation Steps:

1. **Safety First:** Wear appropriate safety gear, including gloves and eye protection. Ensure the vehicle's ignition is off.
2. **Remove Old Battery:** Disconnect the negative (-) terminal first, followed by the positive (+) terminal. Carefully remove the old battery from its compartment.
3. **Check Battery Compartment:** Clean the battery tray and terminals of any corrosion or debris.

4. **Adjust Sizing (if necessary):** Use the included modular trays to achieve the correct height for your vehicle's battery compartment. The battery dimensions are 5.95 in (L) x 3.43 in (W) x 3.66 in (H). Modular trays can adjust the height to fit YTX7, YTX9, and YTX12 applications.
5. **Install New Battery:** Carefully place the WEIZE LiFePO4 battery into the battery compartment. Ensure it is seated securely.
6. **Connect Terminals:** Connect the positive (+) terminal first, then the negative (-) terminal. Ensure all connections are tight and secure. The M6 terminals provide good conductivity and strong corrosion resistance.
7. **Secure Battery:** Use any existing battery straps or clamps to secure the battery in place, preventing movement during operation.
8. **Final Check:** Double-check all connections and ensure no tools are left in the battery compartment.

Copper M6 Terminal

Good Conductivity/Strong Corrosion Resistance/Easy Installation



Image: Close-up of the copper M6 terminal, highlighting its good conductivity and corrosion resistance for easy installation.

COMPATIBLE BATTERY SIZES

H+0 in	LxWxH=5.95x3.43x3.66 in	TX7
H+0.59 in	LxWxH=5.95x3.43x4.25 in	TX9
H+0.86 in+0.59 in	LxWxH=5.95x3.43x5.12in	TX12



Image: Diagram illustrating how modular trays can be used to adjust the battery height to fit various compatible battery sizes like TX7, TX9, and TX12.

OPERATION

The WEIZE LiFePO4 battery is designed for starting applications in various vehicles. Its advanced technology ensures consistent power delivery and quick starts.

Starting Your Vehicle:

- Ensure all vehicle accessories are turned off before attempting to start the engine.
- Turn the ignition key to the 'ON' position.
- Engage the starter. The battery's 400 CCA provides strong cranking power for quick engine ignition.
- Once the engine starts, the vehicle's charging system will maintain the battery's charge.

Battery Management System (BMS) Functionality:

The integrated BMS actively monitors and protects the battery. If the battery voltage drops below 1V due to excessive discharge, the BMS will automatically cut off power to protect the battery. It will automatically reactivate after 1 second once the load is removed or a charging source is connected, without needing a higher voltage input for activation.

Equipped with Dynamic BMS– Active Protection

Protects Against:

SHORT-CIRCUIT

OVER-CHARGE

OVER-DISCHARGE

EXTREME-HEAT

EXTREME-COLD

OVER-CURRENT

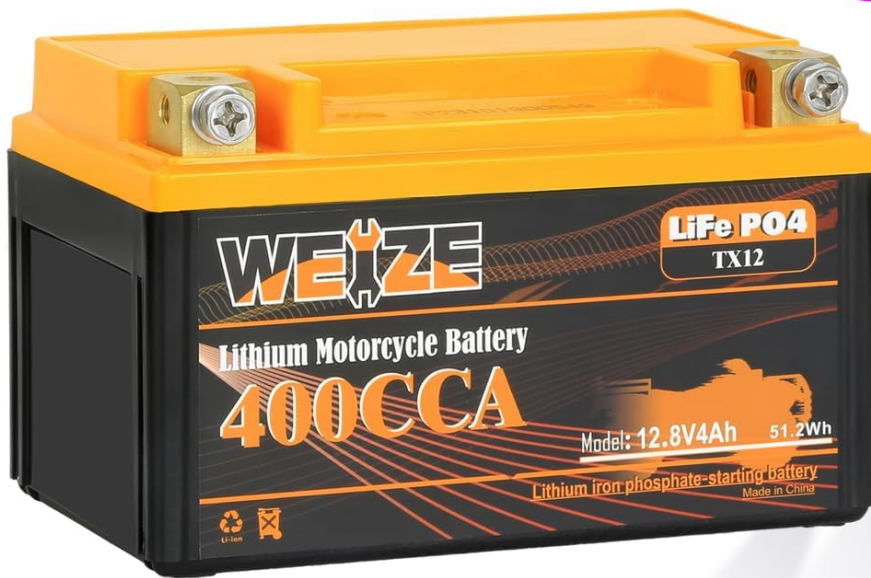


Image: Diagram illustrating the protections provided by the Dynamic BMS, including short-circuit, over-charge, over-discharge, extreme-heat, extreme-cold, and over-current protection.

LONGER LIFE/LIGHT WEIGHT/MORE POWER

Compared to lead-acid batteries

- ◆ 2x more power
- ◆ 5x longer life
- ◆ 10x more starts
- ◆ IP67 Level waterproof
- ◆ Only 40% mass

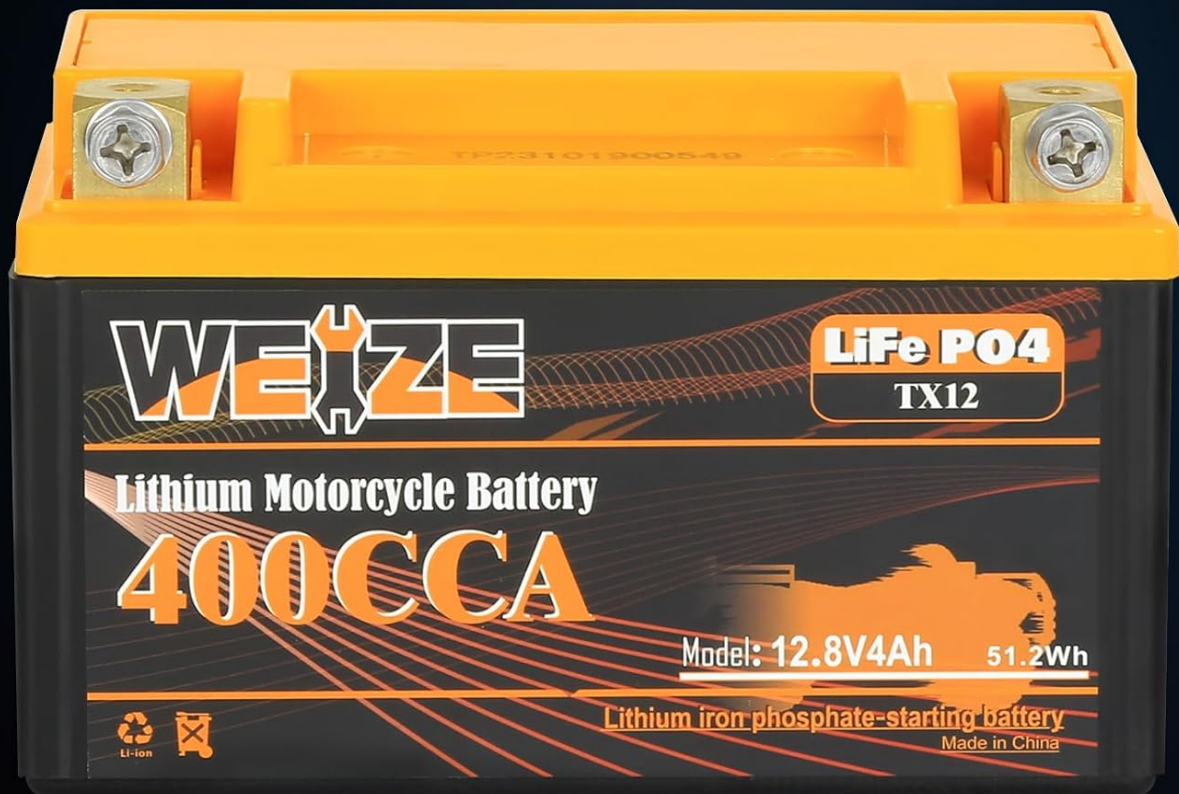


Image: Comparison highlighting the benefits of LiFePO₄ batteries over lead-acid: 2x more power, 5x longer life, 10x more starts, IP67 waterproof, and only 40% mass.

MAINTENANCE

One of the significant advantages of the WEIZE LiFePO₄ battery is its maintenance-free design. Unlike traditional lead-acid batteries, it does not require regular fluid checks or terminal cleaning for sulfation.

General Care:

- **Keep Terminals Clean:** Periodically inspect the battery terminals for any dirt or debris and wipe them clean with a dry cloth.
- **Secure Mounting:** Ensure the battery remains securely mounted in its compartment to prevent vibration damage.
- **Storage:** If storing the vehicle for an extended period, it is recommended to disconnect the battery to prevent parasitic drains. The battery has a very low self-discharge rate, but disconnecting it ensures maximum charge retention.
- **Charging:** If external charging is required, use a charger specifically designed for LiFePO₄ batteries. Do not use

chargers designed for lead-acid batteries, as they may damage the LiFePO4 battery.



Image: Comparison graphic showing LiFePO4 batteries offering over 2000 cycles versus SLA batteries with approximately 500 cycles.



Image: Scale illustrating that LiFePO4 batteries are significantly lighter than traditional SLA batteries.

TROUBLESHOOTING

If you encounter issues with your WEIZE LiFePO4 battery, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Battery not starting vehicle	Loose or corroded terminals; Battery discharged; BMS activated due to low voltage.	Check and tighten terminal connections. Ensure battery is charged (13.38V is fully charged). If BMS cut-off, remove load and reconnect or apply charge to reactivate.
Battery not holding charge	Vehicle's charging system issue; Parasitic drain; Battery fault.	Have vehicle's charging system (alternator/regulator) checked by a professional. Identify and eliminate parasitic drains. If issues persist, contact WEIZE support.
Battery appears dead (no power)	Deeply discharged; BMS in protection mode.	Attempt to charge with a compatible LiFePO4 charger. The BMS will automatically reactivate after 1 second if the circuit is cut off and a charge is applied.
Battery is physically damaged	Impact or improper handling.	Do not use a damaged battery. Contact WEIZE support for assistance.

For issues not covered here, or if troubleshooting steps do not resolve the problem, please contact WEIZE customer support.

WARRANTY & SUPPORT

Warranty Information

WEIZE Lithium Iron Motorcycle Batteries are backed by a **5-YEARS WARRANTY**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Customer Support

If you have any questions, concerns, or require technical assistance, please contact the WEIZE support team directly. As Amazon does not handle returns for battery-related products, direct contact with the seller is necessary for support and warranty claims.

- **Contact Method:** Please refer to your purchase documentation or the WEIZE brand store on Amazon for the most current contact information.
- **Before Contacting:** Have your product model number (BAC-0105) and purchase date ready to expedite the support process.

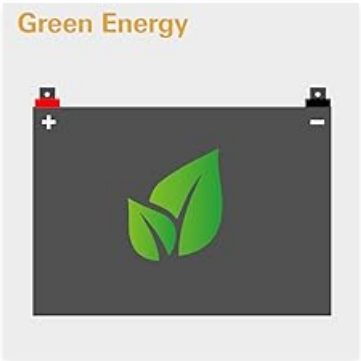


Image: Icon representing the environmentally friendly nature of the LiFePO4 battery.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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