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› [EBL](#) /

› EBL Lithium LiFePO4 Motorcycle Battery YTX14L-BS Instruction Manual

EBL YTX14L-BS

EBL Lithium LiFePO4 Motorcycle Battery YTX14L-BS Instruction Manual

Model: YTX14L-BS (MLI12-ST080B)

1. INTRODUCTION

The EBL Lithium LiFePO4 Motorcycle Battery offers a high-performance, lightweight, and maintenance-free power solution for various powersports vehicles. This battery is designed to provide reliable starting power and a long service life, outperforming traditional lead-acid batteries in several key areas. This manual provides essential information for the safe and effective use of your EBL Lithium LiFePO4 battery.

LiFePO4 BATTERY



Image: Overview of EBL Lithium LiFePO4 Battery key features.

Product Advantages

- **Maintenance-Free:** Requires no activation, acid, or water.
- **Lightweight Design:** Significantly lighter than comparable lead-acid batteries.
- **Extended Lifespan:** Offers over 2,000 charge cycles and a service life exceeding 5 years.
- **High Performance:** Delivers over 500-amps of starting power and 240CCA.
- **Wide Temperature Range:** Operates effectively in extreme temperatures from -76°F to 131°F.
- **Integrated BMS:** Advanced Battery Management System for safety and cell balancing.

LITHIUM BATTERIES BETTER THAN LEAD-ACID

EBL LITHIUM BATTERIES

- ✓ 2X More Power - High C-rate
- ✓ 3X More Light Weight - 1.4kg
- ✓ Faster Charging - 1.6h to 100%
- ✓ 10X Longer Life - 3000+ cycles
- ✓ More Safety - Intelligent BMS
- ✓ More Environmental Friendly
- ✓ High and Low Temperature Resistance
- ✓ Easy to Install

LEAD-ACID

- ✗ Low Power
- ✗ Weight 8-10kg
- ✗ 10 hours to 100%
- ✗ 2 Years Lifespan, 300-500 cycles
- ✗ NO Intelligent BMS
- ✗ X Release Noxious Acidic
- ✗ Poor Temperature Resistance
- ✗ Single Port



Image: Comparison of EBL Lithium Batteries versus Lead-Acid Batteries.

2. SETUP AND INSTALLATION

Package Contents

Before installation, verify that all components are present:

- EBL Lithium Powersport Battery
- Product Manual
- Screwdriver
- Spacer Screws (25mm x 4, 12mm x 4)
- Top Cover Screws (x 2)
- Spacer Manual
- Spacers (12mm x 2)
- Foam (12mm x 2)

WHAT'S IN THE BOX

Product Manual *1

EBL®
12V Lithium Powersport Battery

User Manual
Thank you for choosing our product!
To ensure optimal use and satisfaction, we recommend to read the user manual carefully before use, and keep this manual properly.

Spacer Screws 25mm *4

Top Cover Screws *2

Spacer Screws 12mm *4

Screwdriver *1

Battery *1

EBL®
LITHIUM POWERSPORT BATTERY

Model: MJ12-ST0808

VOLTAGE 12V CAPACITY 8AH WATT-HOUR 96WH CA 450A

Spacer Manual *1

Spacer 12mm *2

Foam 12mm*2

Compatibility Check

This battery is compatible with a wide range of powersports vehicles, including motorcycles, ATVs, UTVs, PWCs, quads, 4 wheelers, jet skis, waverunners, scooters, riding lawn mowers, and generators. It replaces various lead-acid battery sizes. Please confirm the battery model, size, terminal configuration, and cranking current required for your vehicle before installation.

LIFEPO4 MOTORCYCLE BATTERY SMALL SIZE/LIGHT WEIGHT

Replaceable lead-acid battery models

YTX12-BS, YTX14-BS, YTX20-BS, YTX20-BS,
YTX20H-BS, YTX20HL-BS, YTX16-BS,
YB16L-B, YB16L-B2, YB16CL-B

★ Please confirm whether the battery size and model is suitable before purchasing.



Image: Wide compatibility with various powersports vehicles.

Installation Steps

1. **Prepare the Battery Compartment:** Ensure the battery compartment in your vehicle is clean and free of debris.
2. **Adjust Battery Size (if necessary):** Use the provided spacers and foam to ensure a snug fit within your vehicle's battery tray. Refer to the Spacer Manual for detailed instructions.
3. **Connect Terminals:** The battery features a multi-terminal configuration allowing for front, side, or top installations. Connect the positive (+) terminal first, followed by the negative (-) terminal. Ensure connections are secure. The terminals are pure copper for better conductivity and corrosion resistance.
4. **Secure the Battery:** Use the top cover screws and any existing battery straps or clamps to firmly secure the battery in place.
5. **Initial Charge:** Although the battery comes fully charged, it is recommended to charge the battery with a compatible lithium battery charger before its first use to ensure optimal performance.

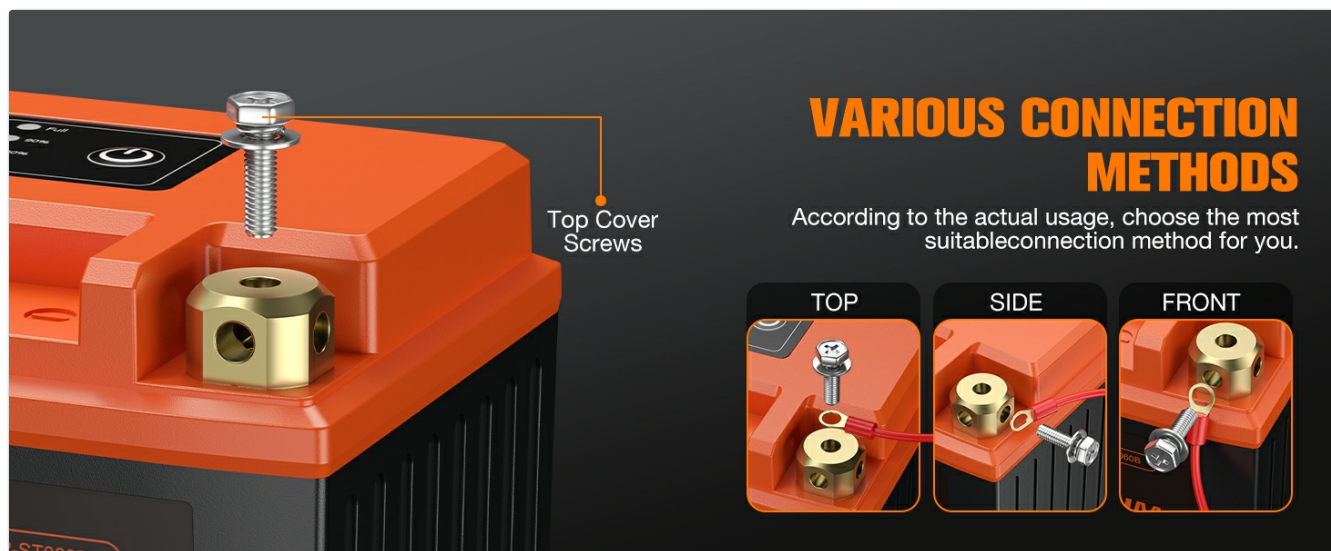


Image: Various connection methods for the battery terminals.

PRODUCT DETAILS



Image: Product details highlighting terminals and indicator light.

3. OPERATING INSTRUCTIONS

Starting the Vehicle

Once installed and charged, the EBL Lithium LiFePO4 battery is ready to provide reliable starting power. Simply operate your vehicle's ignition system as usual. The battery's high cranking amps ensure quick starts, even in challenging conditions.

Battery Management System (BMS)

The integrated Dynamic BMS provides comprehensive safety protection, including short circuit, overvoltage, over-discharge, overcurrent, and overcharge protection. It also features bi-directional active cell balancing to maintain battery health and extend its lifespan. No manual BMS reset is required.



Image: Fast charging and protection features.

Rapid Charging

The battery supports rapid charging technology. It can achieve sufficient starting power with approximately 5 minutes of charge, allowing for quick readiness when needed.

Temperature Performance

The EBL Lithium LiFePO₄ battery is designed to perform reliably across a broad temperature range, from extremely cold conditions of -76°F to hot environments up to 131°F, ensuring consistent starting power.

START FREELY WITHOUT FEAR OF TEMPERATURE CHANGES



-76°F

131°F



Image: Battery performance across a wide temperature range.

4. MAINTENANCE

One of the primary benefits of the EBL Lithium LiFePO4 battery is its minimal maintenance requirements. Unlike lead-acid batteries, it does not require regular checks for sulfation, acid levels, or water replenishment.

General Care

- Keep battery terminals clean and free of corrosion.
- Ensure battery connections remain secure.
- Avoid physical damage to the battery casing.

Storage

For long-term storage, ensure the battery is fully charged. Due to its low self-discharge rate, the battery will retain its charge for extended periods. Store the battery in a cool, dry place away from direct sunlight and extreme temperatures.



Image: High capacity and durable design for long service life.

5. TROUBLESHOOTING

If you encounter issues with your EBL Lithium LiFePO4 battery, consider the following common troubleshooting steps:

- **Vehicle Fails to Start:**
 - Check battery connections to ensure they are secure and free of corrosion.
 - Verify the battery's charge level using the indicator light or a voltmeter.
 - If the battery is low, charge it using a compatible lithium battery charger.
- **Battery Indicator Light Issues:**
 - Refer to the battery's specific indicator light patterns for diagnostics (e.g., solid green for full, flashing for low).
 - If the light indicates a fault, ensure proper charging and connections.
- **Charging Problems:**
 - Ensure you are using a charger specifically designed for lithium (LiFePO4) batteries. Using an incompatible charger can damage the battery.
 - Check the charger's connection to the battery and the power source.

For persistent issues not resolved by these steps, please contact EBL customer support.

6. SPECIFICATIONS

Specification	Value
Brand	EBL
Model Number	MLI12-ST080B
Battery Type	Lithium LiFePO4
Voltage	12 Volts
Capacity	8 Ah
Cranking Amps (CCA)	240 CCA

Specification	Value
Weight	1.4 Kilograms (3.08 pounds)
Dimensions (L x W x H)	5.9 x 3.4 x 5.7 inches (YTX14L-BS)
Terminal Configuration	Left: Negative (-), Right: Positive (+)
Operating Temperature	-76°F to 131°F

Note: Dimensions may vary slightly depending on the specific model variant and use of spacers.



Image: Dimensions for YTX14L-BS model.

7. WARRANTY AND SUPPORT

Warranty Information

The EBL Lithium LiFePO4 Motorcycle Battery comes with a 1-year manufacturer's warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.

Customer Support

For any questions, technical assistance, or warranty inquiries, please contact EBL customer support:

- **Email:** service@eblofficial.com

Please provide your battery model number (ML112-ST080B) and purchase details when contacting support to expedite assistance.