

EBL YTX30L-BS

EBL YTX30L-BS Lithium LiFePO4 Powersport Battery User Manual

Model: YTX30L-BS

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your EBL YTX30L-BS Lithium LiFePO4 Powersport Battery. This 12V 18Ah battery is designed for a wide range of powersport vehicles, offering superior performance compared to traditional lead-acid batteries.

Key features include:

- **High Performance:** 1080CA (Cranking Amps) and 540CCA (Cold Cranking Amps).
- **Maintenance-Free:** No sulfation, activation, acid, or water required.
- **Advanced BMS:** Integrated Battery Management System for safety and cell balancing.
- **Rapid Charging:** Capable of providing starting power with just 5 minutes of charge.
- **Versatile Installation:** Multi-terminal configuration for various mounting options.

2. SAFETY INFORMATION

Read all safety instructions before installation and use. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Charging:** Only use a charger specifically designed for lithium (LiFePO4) batteries. Using an incompatible charger can damage the battery and pose a fire risk.
- **Connection:** Ensure all battery connections are secure and correct (Left: Negative (-), Right: Positive (+)). Loose connections can cause overheating or arcing.
- **Physical Damage:** Do not puncture, drop, or expose the battery to severe impact.
- **Temperature:** Avoid exposing the battery to extreme temperatures outside its operating range. The PC+ABS protective shell offers resistance to high and low temperatures, but prolonged exposure to extremes should be avoided.
- **Short Circuits:** Prevent short circuits by keeping tools and conductive materials away from the battery terminals.
- **Disposal:** Dispose of batteries according to local regulations. Do not incinerate.

3. PRODUCT OVERVIEW

The EBL YTX30L-BS battery is engineered for durability and performance. It features a robust design with multiple terminal options for broad compatibility.

LiFePO4 BATTERY

5
Service life more than 5 YEARS

Vibration Resistant

Lighter weight 1/3

Super starting current

Safe and non-flammable

Maintenance free

Environmentally friendly

Low self-discharge rate

Better conductivity

EBL
Model: ML12-ST190B
LITHIUM POWERSPORT BATTERY

VOLTAGE 12V	CAPACITY 18Ah	WATT-HOUR 216Wh	CA 1000A
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The advertisement features a central image of a motorcycle rider in full gear on a track. Below this, a large black and orange EBL battery is shown. The battery has a label with the EBL logo, model number ML12-ST190B, and the text 'LITHIUM POWERSPORT BATTERY'. At the bottom of the battery label, there is a table with technical specifications: Voltage (12V), Capacity (18Ah), Watt-hour (216Wh), and CA (1000A). Surrounding the battery are several circular icons with text describing its features: a leaf for 'Environmentally friendly', a lightning bolt with a minus sign for 'Low self-discharge rate', a lightning bolt with a plus sign for 'Better conductivity', a large number '5' for 'Service life more than 5 YEARS', a jagged lightning bolt for 'Vibration Resistant', a scale for 'Lighter weight 1/3', a lightning bolt with an 'A' for 'Super starting current', a shield with a lightning bolt for 'Safe and non-flammable', and a thumbs up for 'Maintenance free'.

Image 3.1: Overview of EBL LiFePO4 Battery features.

PRODUCT DETAILS



Image 3.2: Detailed view of battery terminals and indicator light.

Components:

- **Battery Unit:** The main 12V 18Ah LiFePO4 battery.
- **Terminals:** Four terminals (front, side, top, female) for flexible connection. Left terminal is Negative (-), Right terminal is Positive (+).
- **Battery Indicator Light:** Provides a visual indication of the battery's charge status.
- **Protective Shell:** Made from PC+ABS material for enhanced durability and temperature resistance.
- **Modular Trays/Mounting Block:** Included for adapting to various battery compartment sizes.

4. SETUP AND INSTALLATION

The EBL YTX30L-BS battery comes fully charged and ready for installation. Follow these steps for proper setup:

1. **Compatibility Check:** Before installation, confirm that the battery model, size, terminal configuration, and cranking current are compatible with your vehicle. Refer to the Specifications section or your vehicle's manual.
2. **Prepare Vehicle:** Turn off the vehicle's ignition and disconnect any external power sources.

3. **Remove Old Battery:** Carefully disconnect the negative (-) terminal first, then the positive (+) terminal from the old battery. Remove the old battery from the compartment.
4. **Position New Battery:** Place the EBL YTX30L-BS battery into the battery compartment. Use the provided modular trays or removable mounting block if necessary to ensure a snug fit.
5. **Connect Terminals:** Connect the positive (+) terminal first, then the negative (-) terminal. Ensure all connections are tight and secure. The battery features multiple terminal configurations (front, side, top, female) to accommodate various vehicle types.
6. **Final Check:** Verify all connections are secure and there is no risk of short-circuiting.



Image 4.1: The EBL YTX30L-BS battery is compatible with a wide range of powersport vehicles.

5. OPERATING INSTRUCTIONS

Your EBL LiFePO4 battery is designed for reliable performance in various conditions.

Initial Use:

While the battery comes pre-charged, it is recommended to fully charge the battery with a compatible lithium battery

charger before its first use to ensure optimal performance and longevity.

Starting the Vehicle:

The battery provides over 500 amps of starting power. In most cases, it can provide sufficient starting power with as little as 5 minutes of charge, thanks to its rapid-charge technology.



Image 5.1: The battery is designed to operate reliably across a wide temperature range.

Battery Indicator:

Monitor the battery indicator light on the top of the battery for a quick check of its charge status.

6. MAINTENANCE

The EBL YTX30L-BS Lithium LiFePO₄ battery is virtually maintenance-free due to its advanced design and chemistry.

- **No Fluid Checks:** Unlike lead-acid batteries, this LiFePO₄ battery does not require water or acid level checks.
- **No Sulfation:** Lithium batteries do not suffer from sulfation, which is a common issue in lead-acid batteries.

- **BMS Protection:** The integrated Battery Management System (BMS) actively balances cells and provides protection, eliminating the need for manual resets.
- **Cleaning:** Keep the battery terminals and casing clean and free from dirt or corrosion. Use a dry cloth for cleaning.
- **Storage:** If storing the vehicle or battery for an extended period, ensure the battery is fully charged and stored in a cool, dry place. While LiFePO4 batteries have a low self-discharge rate, occasional checks are recommended for very long storage periods.

7. TROUBLESHOOTING

If you encounter issues with your EBL YTX30L-BS battery, refer to the following common troubleshooting steps:

- **Vehicle Not Starting:**
 - Check all battery connections to ensure they are secure and free from corrosion.
 - Verify the battery's charge level using the indicator light or a voltmeter. If low, charge the battery with a compatible lithium charger.
 - Ensure the battery is correctly installed with the correct polarity (Left: Negative (-), Right: Positive (+)).
- **Battery Not Charging:**
 - Confirm you are using a charger specifically designed for LiFePO4 batteries.
 - Check the charger's connections to the battery and power outlet.
 - Inspect the battery terminals for any damage or corrosion that might impede charging.
- **Unsure About Compatibility:** If you are uncertain whether your vehicle model is compatible, please refer to the detailed specifications in this manual or contact EBL customer support.

For persistent issues or concerns not addressed here, please contact EBL customer support.

8. SPECIFICATIONS

Detailed technical specifications for the EBL YTX30L-BS Lithium LiFePO4 Powersport Battery:

Specification	Value
Brand	EBL
Model	YTX30L-BS
Voltage	12 Volts
Capacity	18Ah
Cold Cranking Amps (CCA)	540CCA
Cranking Amps (CA)	1080CA
Battery Cell Composition	Lithium Iron Phosphate (LiFePO4)
Item Weight	2.9 Kilograms (6.4 pounds)
Product Dimensions (L x W x H)	6.4"D x 6.8"W x 4.9"H

Manufacturer	Ampxell Technology Co.Ltd.
UPC	810161766772
Manufacturer Part Number	MLI12-ST180B
Vehicle Service Type Compatibility	ATV, Personal Watercraft, Scooter, Snowmobile, UTV, Motorcycle, Riding Lawn Mower, Generator

LITHIUM BATTERIES BETTER THAN LEAD-ACID

EBL LITHIUM BATTERIES

- ✓ 2X More Power - High C-rate
- ✓ 3X More Light Weight - 2.8 kg
- ✓ Faster Charging - 3.5h 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 8kg
- ✗ 10 hours to 100%
- ✗ 2 Years Lifespan, 300-500 cycles
- ✗ NO Intelligent BMS
- ✗ Release Noxious Acidic
- ✗ Poor Temperature Resistance
- ✗ Single Port



Image 8.1: Comparison of EBL Lithium Batteries vs. Lead-Acid Batteries.

SUITABLE FOR MOST LEAD-ACID BRANDS BATTERY

REPLACEMENT MODEL

YTX30L-BS

YIX30L-BS

YIX30L-BS-PW

GYZ32HL



Image 8.2: Replacement models for common lead-acid batteries.

9. WARRANTY AND SUPPORT

EBL stands behind the quality of its products.

Warranty Information:

This product comes with a **1-year manufacturer's warranty** from the date of purchase. Additionally, EBL offers a **30-day money-back guarantee** for worry-free purchasing.

Customer Support:

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

Email: service@eblofficial.com

When contacting support, please have your product model (YTX30L-BS) and purchase information readily available.

