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## PowerStar 14AHL-BS

# PowerStar 14AHL-BS Powersports Battery User Manual

Model: 14AHL-BS (Replaces ETX15L, YTX14AHL-BS, GTX14AHL-BS)

## 1. SAFETY INFORMATION

Please read and understand all safety instructions before handling, installing, or operating the battery. Failure to follow these instructions may result in serious injury or property damage.

- **No Sparks, Flames, Smoking:** Keep away from ignition sources.
- **Shield Eyes:** Wear appropriate eye protection. Explosive gases can cause blindness or injury.
- **Keep Out of the Reach of Children:** Batteries contain hazardous materials.
- **Sulfuric Acid Can Cause Severe Burns:** Avoid contact with skin, eyes, or clothing. In case of contact, flush with water and seek medical attention.
- **Read Instruction Manual Carefully:** Ensure full understanding of proper usage.
- **Explosive Gases:** Ensure adequate ventilation during charging and operation.

### Proposition 65 Warning:

This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- 12V 12AH Sealed Lead-Acid (SLA) Absorbent Glass Mat (AGM) Battery
- Maintenance-Free Design
- Nut & Bolt Terminal Type
- Designed for Powersports applications including motorcycles, ATVs, UTVs, and scooters.

### 2.2 Product Dimensions

The PowerStar 14AHL-BS battery has the following approximate dimensions:

**Length:** 5 5/16 inches (5.31 inches)

**Width:** 3 1/2 inches (3.50 inches)

**Height:** 6 9/16 inches (6.56 inches)

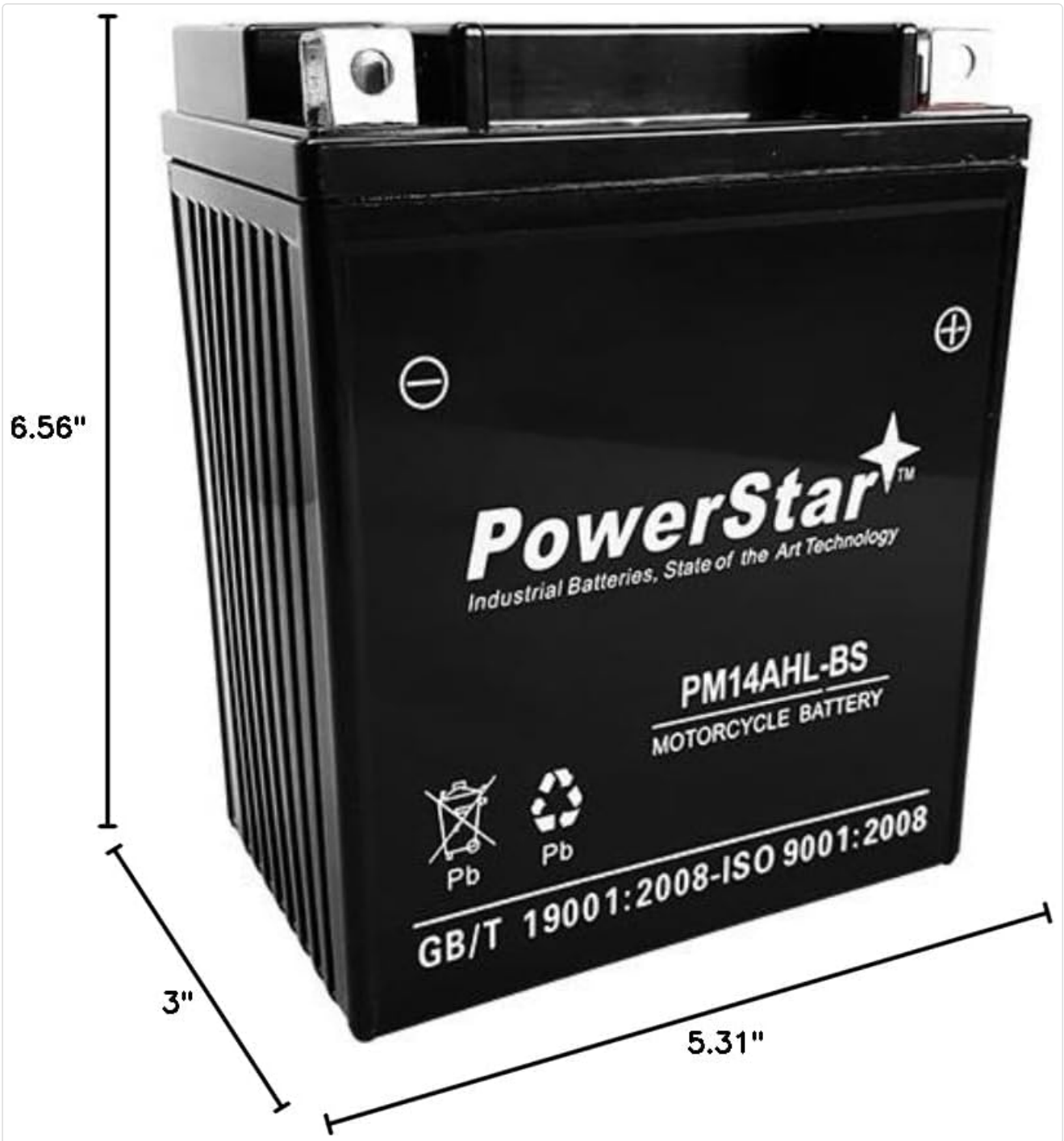


Figure 1: PowerStar 14AHL-BS Battery with labeled dimensions (Length: 5.31", Width: 3.50", Height: 6.56").

### 2.3 AGM Technology

This battery utilizes Absorbent Glass Mat (AGM) technology, which means the electrolyte is absorbed into a mat of fine glass fibers between the battery plates. This design provides several benefits:

- **Spill-Proof:** The absorbed electrolyte prevents spills, allowing for flexible mounting positions.
- **Vibration Resistance:** The tightly packed construction enhances resistance to vibration.
- **Maintenance-Free:** No need to add water or check electrolyte levels.
- **Low Self-Discharge:** Retains charge for longer periods when not in use.



Figure 2: Illustration of AGM battery technology, highlighting its sealed and maintenance-free characteristics.

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Video 1: This video provides a general overview of Mighty Max batteries, showcasing various terminal types and the benefits of AGM technology, including spill-proof design and mounting versatility.

## 3. SETUP AND INSTALLATION

### 3.1 Initial Preparation

The PowerStar 14AHL-BS battery is shipped fully charged and ready for immediate use. If the battery has been stored for an extended period (3-6 months or more) or in low temperatures, it is recommended to recharge it before first use to ensure optimal performance.

### 3.2 Installation Steps

Follow these general steps for installing your new Powersports battery. Always refer to your vehicle's specific service manual for detailed instructions.

1. **Safety First:** Ensure the vehicle's ignition is off and wear appropriate safety gear, including eye protection.
2. **Locate Battery:** Identify the battery compartment in your motorcycle, ATV, UTV, or scooter.
3. **Disconnect Old Battery:** Disconnect the negative (-) terminal first, followed by the positive (+) terminal. Carefully remove the old battery.
4. **Inspect Compartment:** Clean the battery compartment and inspect cables for corrosion or damage.
5. **Position New Battery:** Place the PowerStar 14AHL-BS battery into the compartment. Its sealed AGM design allows for mounting in various positions.
6. **Connect New Battery:** Connect the positive (+) terminal first, then the negative (-) terminal. Ensure connections are secure using the provided nut and bolt terminals.
7. **Secure Battery:** Use any existing straps or clamps to secure the battery firmly in place to prevent movement during operation.

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Video 2: A 360-degree view of the YTX14AHL-BS battery, demonstrating its physical appearance and terminal configuration, which can assist in installation.

## 4. OPERATION

Once installed, the PowerStar 14AHL-BS battery provides reliable power for starting and operating your Powersports vehicle. Ensure your vehicle's charging system is functioning correctly to maintain the battery's charge during use.

- **Starting:** The battery is designed to deliver high cranking amps for quick and efficient engine starts.
- **Accessory Power:** It supplies consistent power to all electrical accessories on your vehicle.
- **Low Voltage Recharge:** If the battery experiences low voltage, recharge it promptly using a compatible Powersports battery charger to prevent damage and ensure longevity.

## 5. MAINTENANCE

### 5.1 Maintenance-Free Design

The PowerStar 14AHL-BS is an AGM battery, meaning it is sealed and maintenance-free. You do not need to check electrolyte levels or add water throughout its lifespan.

### 5.2 Storage Guidelines

For optimal battery life, especially during periods of non-use:

- **Charge Before Storage:** Fully charge the battery before storing it for an extended period.
- **Storage Conditions:** Store the battery in a dry, cool environment. Avoid extreme temperatures.
- **Periodic Recharging:** Even with low self-discharge, it is advisable to recharge the battery every 3-6 months during long-term storage to prevent deep discharge and potential damage.
- **Avoid Short Circuits:** Ensure terminals are protected to prevent accidental short circuits during storage.

### 5.3 Regular Checks

- **Terminal Connections:** Periodically check that the nut and bolt terminal connections are clean and tight. Loose connections can lead to poor performance and heat buildup.
- **Battery Casing:** Inspect the battery casing for any signs of damage, cracks, or swelling.
- **Cleanliness:** Keep the battery top clean and free of dirt and debris.

## 6. TROUBLESHOOTING

If you experience issues with your PowerStar 14AHL-BS battery, consider the following common troubleshooting steps:

Problem	Possible Cause	Solution
Engine does not crank or cranks slowly	Low battery charge, loose or corroded terminals, faulty starter/charging system.	Recharge battery, clean and tighten terminals, inspect vehicle's electrical system.
Battery not holding a charge	Undercharging, overcharging, internal battery damage, parasitic drain.	Check charging system, use appropriate charger, test for parasitic drains, replace battery if damaged.
Battery appears swollen or damaged	Overcharging, excessive heat, internal fault.	Immediately disconnect and replace the battery. Do not attempt to charge or use a swollen battery.

If problems persist after attempting these solutions, consult a qualified technician or contact PowerStar customer support.

## 7. SPECIFICATIONS

Attribute	Detail
Brand	PowerStar
Model Number	14AHL-BS (YTX14AHL)
Voltage	12V
Capacity	12AH
Battery Type	SLA AGM (Sealed Lead-Acid Absorbent Glass Mat)
Dimensions (L x W x H)	5 5/16" x 3 1/2" x 6 9/16" (approx. 5.31"D x 3.50"W x 6.56"H)
Terminal Type	Nut & Bolt
Number of Cells	6
Item Weight	10 pounds
UPC	840894145889
Manufacturer	BatteryJack

## 8. WARRANTY AND SUPPORT

The PowerStar 14AHL-BS Powersports Battery comes with a **2-year warranty**. For warranty claims, technical assistance, or any product-related inquiries, please contact PowerStar customer support.

Please retain your proof of purchase for warranty validation.

