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Mighty Max Battery YTX30L-BS

Mighty Max Battery YTX30L-BS Motorcycle Battery and Charger Instruction Manual

Model: YTX30L-BS

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your Mighty Max Battery YTX30L-BS 12V 30AH Sealed Lead Acid (SLA) battery and the accompanying 12V 4Amp charger. Please read this manual thoroughly before installation, operation, or maintenance to ensure optimal performance and safety.

2. SAFETY INFORMATION

Always observe the following safety precautions when handling batteries and chargers:

- Wear appropriate personal protective equipment, including eye protection and gloves.
- Do not short-circuit battery terminals.
- Keep batteries away from open flames, sparks, and heat sources.
- Ensure adequate ventilation when charging batteries.
- Do not attempt to open or modify the battery or charger.
- Dispose of batteries according to local regulations.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x Mighty Max YTX30L-BS 12V 30AH SLA Battery
- 1x Mighty Max 12V 4Amp Charger and Maintainer with Alligator Clips
- Terminal Screws

4. PRODUCT OVERVIEW



Figure 4.1: The Mighty Max YTX30L-BS 12V 30AH SLA battery shown alongside its 12V 4Amp charger with alligator clips.

CONFIGURATION

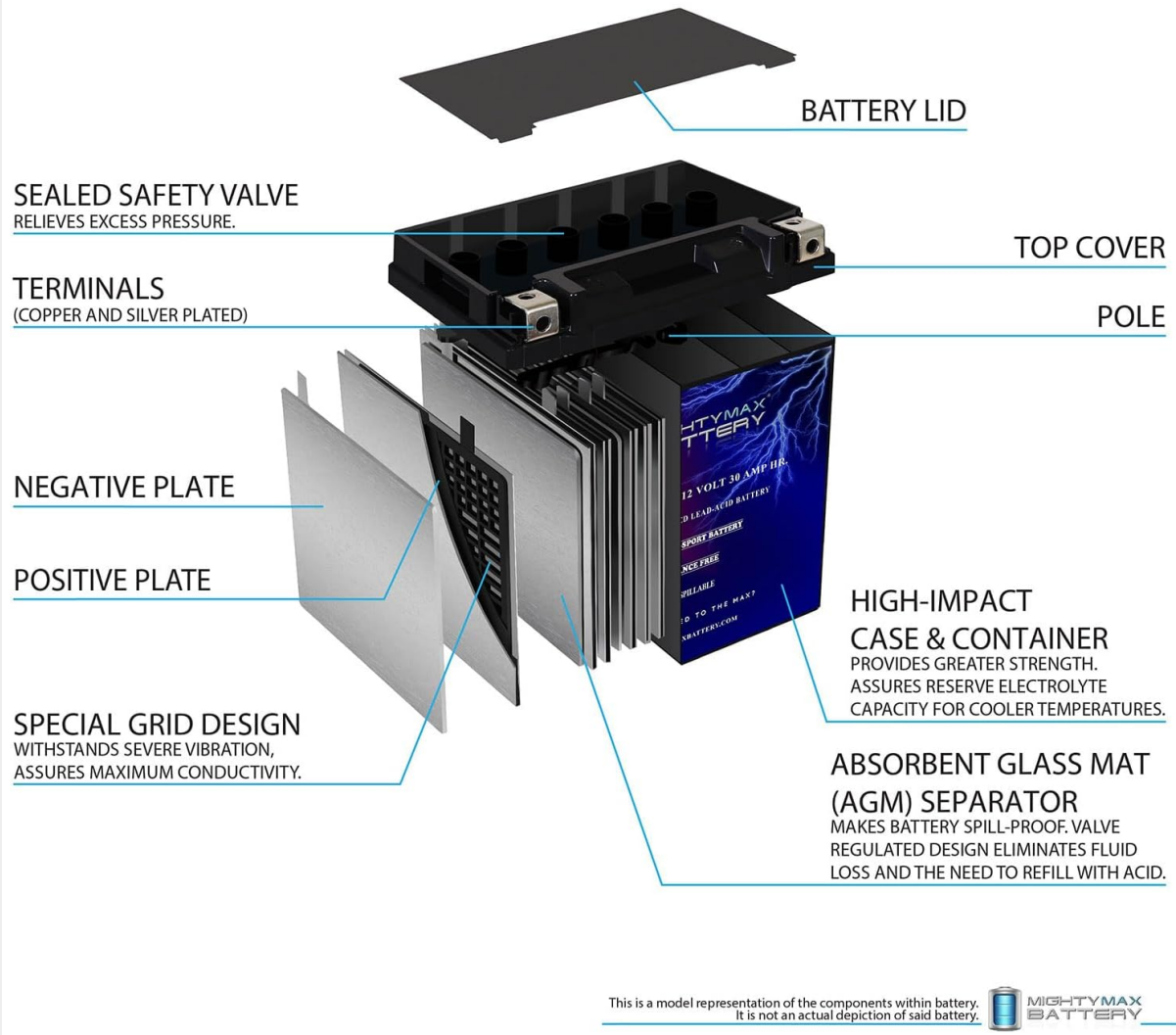
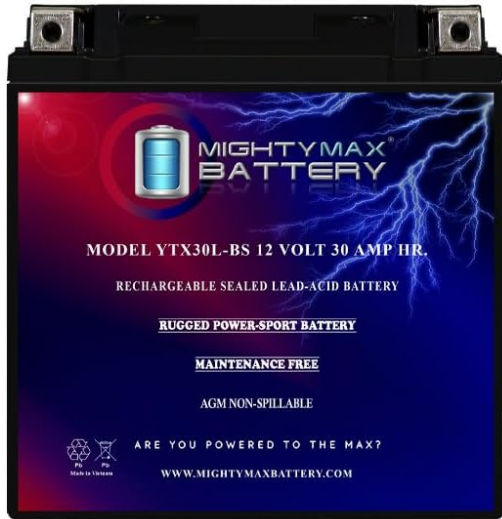


Figure 4.2: Diagram illustrating the internal components of the YTX30L-BS battery, including the battery lid, top cover, poles, sealed safety valve, terminals (copper and silver plated), negative plate, positive plate, high-impact case and container, special grid design, and absorbent glass mat (AGM) separator.



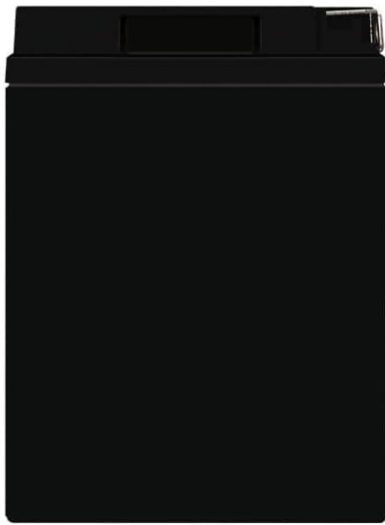
Figure 4.3: The included Mighty Max 12V 4Amp charger and maintainer, featuring a standard power plug and alligator clips for battery connection.



6.88in
(17.48cm)
Including Terminal



6.60in
(16.76cm)



4.96in
(12.60cm)

Figure 4.4: Dimensional view of the YTX30L-BS battery. The dimensions are approximately 6.60 inches (16.76 cm) in depth, 4.96 inches (12.60 cm) in width, and 6.88 inches (17.48 cm) in height (including terminals).

HIGH RATE SERIES

FROM IGNITION TO ACCELERATION, POWERED TO THE MAX.



Weatherproof Reliability:

In rain, snow, or heat, this battery powers through.



Faster Starts:

More cranking power means instant ignition, every time.



Built for Performance:

Handles heavy-duty electrical loads without breaking a sweat.



Longer Battery Life:

A stronger start means reduced wear and tear over time.



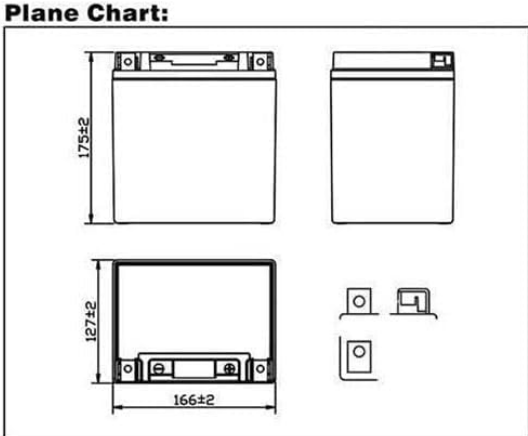
MORE CCA. MORE POWER. NO HESITATION, JUST ACCELERATION.

Figure 4.5: Key features of the High Rate Series battery, emphasizing weatherproof reliability, faster starts due to more cranking power, robust construction for heavy-duty electrical loads, and longer battery life through stronger starts.



CHARACTERISTICS OF VALVE REGULATED FACTORY ACTIVATED LEAD ACID BATTERY

MODEL: YTX30L-BS



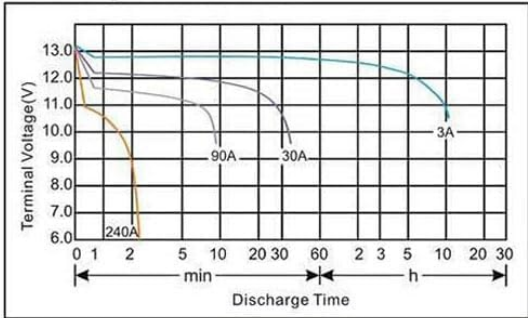
Parts:

Cover	Container Bottom	Terminal	Positive Plate	Negative Plate	Separator	Electrolyte	Safety Valve	Seal Glue
ABS	ABS	Pb	PbO ₂	Pb	AGM	dilute sulphuric acid	Rubber	Epoxy Resin

Parameter Chart:

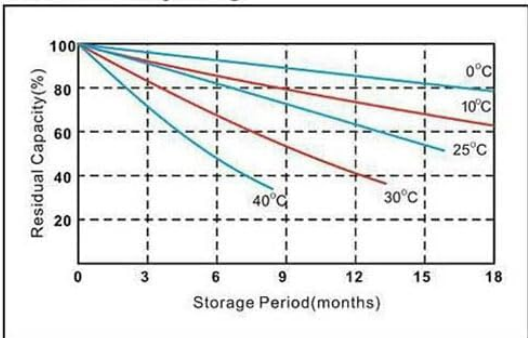
Volts	12V	
Capacity (25°C)	10 hours rate	30Ah
Appx.Dimension (mm)	L±2	166
	W±2	127
	H±2	175
Storage Status	Wet	
Weight (Approx)	9.7Kg	

Discharge Current 25°C



Retention of Charge Storage @25°C		
1 month	97%	Directly Mounted
3 month	90%	Directly Mounted
6 month	80%	Constant Volts:14.4V Limit Current:6A Charging Hours:2-3H
12 month	40%	Constant Volts:14.4V Limit Current:6A Charging Hours:4-6H
CCA	Factory Standard (-10°C)	Factory Standard (-18°C)
Discharging Current	240A	300A

Residual Capacity



★The above are average and data obtained from the first 3 charge/discharge cycles. These are not minimum values.

Figure 4.6: Technical data sheet for the YTX30L-BS battery, detailing parts, parameter characteristics (Volts, Capacity, Dimensions, Weight, CCA), discharge current at 25°C, and residual capacity retention over time.



Figure 4.7: Close-up view of an alligator clip connecting to a battery terminal, demonstrating the proper method for establishing an electrical connection.

5. SPECIFICATIONS

Feature	Detail
Model	YTX30L-BS
Voltage	12V
Capacity	30AH
Cold Cranking Amps (CCA)	385 CCA
Battery Type	Sealed Lead Acid (SLA) / Absorbent Glass Mat (AGM)
Dimensions (L x W x H)	6.60" x 4.96" x 6.88" (16.76 cm x 12.60 cm x 17.48 cm)
Weight	Approximately 23 pounds
Terminal Type	Nut & Bolt

Feature	Detail
Polarity	Positive on Right, Negative on Left
Charger Output	12V, 4Amp
Charger Type	Charger and Maintainer

6. SETUP

6.1 Battery Installation

1. **Preparation:** Ensure the vehicle's ignition is off and remove the old battery if applicable.
2. **Placement:** Position the new YTX30L-BS battery in the battery compartment. The SLA/AGM design allows for mounting in any position.
3. **Terminal Connection:**
 - Connect the positive (+) terminal (red cable) first. Secure it with the provided nut and bolt.
 - Connect the negative (-) terminal (black cable) second. Secure it with the provided nut and bolt.
4. **Tighten Connections:** Ensure all connections are tight to prevent vibration and ensure good electrical contact. Do not overtighten.

6.2 Charger Connection

The included 12V 4Amp charger is designed to charge and maintain your battery.

1. **Connect to Battery:**
 - Connect the red (+) alligator clip from the charger to the positive (+) battery terminal.
 - Connect the black (-) alligator clip from the charger to the negative (-) battery terminal.
2. **Connect to Power:** Plug the charger's AC power cord into a standard electrical outlet.
3. **Verify:** The charger should indicate that it is charging (refer to charger's specific indicator lights if available).

7. OPERATING THE CHARGER

The 12V 4Amp charger is an automatic charger and maintainer. Once connected, it will assess the battery's state of charge and begin charging. When the battery is fully charged, the charger will switch to a maintenance mode to prevent overcharging.

- Allow the charger to operate until the battery is fully charged. This may take several hours depending on the battery's discharge level.
- For long-term storage, the charger can remain connected to maintain the battery's charge.
- Always disconnect the AC power from the charger before disconnecting the alligator clips from the battery terminals.

8. MAINTENANCE

Proper maintenance will extend the life of your Mighty Max battery:

- **Regular Charging:** If the battery is not in regular use, charge it periodically (e.g., once a month) to

prevent deep discharge. The included charger can be used as a maintainer.

- **Terminal Cleaning:** Keep battery terminals clean and free of corrosion. Use a wire brush if necessary.
- **Storage:** Store the battery in a cool, dry place when not in use. Ensure it is fully charged before storage.
- **Inspection:** Periodically inspect the battery for any signs of damage, cracks, or leaks.

9. TROUBLESHOOTING

Problem	Possible Cause	Solution
Battery not charging	Charger not plugged in; loose connections; faulty charger; deeply discharged battery.	Check power connection; ensure clips are securely attached; test charger with another battery if possible; allow more time for deeply discharged batteries.
Battery not holding charge	Old battery; parasitic drain in vehicle; improper charging.	Test battery health; check vehicle for electrical drains; ensure proper charging cycles.
Corrosion on terminals	Exposure to elements; loose connections.	Clean terminals with a wire brush and baking soda solution; apply anti-corrosion grease.

10. SUPPORT AND WARRANTY

For technical assistance, warranty claims, or further information regarding your Mighty Max Battery YTX30L-BS battery or charger, please contact Mighty Max Battery customer support.

Refer to the official Mighty Max Battery website or your purchase documentation for specific warranty terms and contact details. The manufacturer, Mighty Max Battery, is committed to providing support for their products.

You can often find support information on the [Mighty Max Battery Brand Store on Amazon](#).