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› SigmasTek YTX7L-BS Motorcycle Battery User Manual

SigmasTek YTX7L-BS

SigmasTek YTX7L-BS Motorcycle Battery User Manual

Model: YTX7L-BS

INTRODUCTION

This manual provides essential information for the safe and effective use of your SigmasTek YTX7L-BS AGM Maintenance-Free Motorcycle Battery. Please read these instructions carefully before installation and operation to ensure proper performance and longevity of the battery. This battery is designed for various powersport applications including motorcycles, ATVs, jet skis, snowmobiles, and lawn & garden equipment.

SAFETY INFORMATION

Always prioritize safety when handling batteries. Failure to follow these safety guidelines can result in personal injury or damage to property.

- Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves when handling batteries.
- Keep batteries away from open flames, sparks, and heat sources. Batteries can produce explosive gases.
- Do not short-circuit the battery terminals. This can cause severe sparks, heat, and potential explosion.
- Keep out of reach of children.
- Avoid contact with battery acid. If contact occurs, flush immediately with water and seek medical attention.
- Dispose of batteries responsibly according to local regulations. Do not discard with household waste.

PRODUCT OVERVIEW

The SigmasTek YTX7L-BS is a high-performance Absorbent Glass Mat (AGM) battery designed for reliable power in powersport vehicles. It is a maintenance-free unit, meaning no water addition or acid filling is required.

- **Voltage:** 12V
- **Capacity:** 6Ah
- **Cold Cranking Amps (CCA):** 100
- **Technology:** Absorbent Glass Mat (AGM)

- **Features:** Extreme freeze, heat, and vibration resistance; superior starting power and deep cycle capacity.



Image: SigmasTek YTX7L-BS Motorcycle Battery. This image displays the overall appearance of the battery unit.

SETUP AND INSTALLATION

The SigmasTek YTX7L-BS battery comes fully charged and ready for immediate use. No initial charging or acid filling is required.

1. **Preparation:** Ensure the battery compartment in your vehicle is clean, dry, and free of debris or corrosion.
2. **Placement:** Carefully place the new battery into the battery tray. Ensure it fits securely and does not move freely.
3. **Connections:**
 - Connect the **positive (+)** terminal first. Attach the positive cable from your vehicle to the positive terminal of the battery and tighten securely.
 - Connect the **negative (-)** terminal second. Attach the negative cable from your vehicle to the negative terminal of the battery and tighten securely.
4. **Secure Battery:** Use any straps or clamps provided by your vehicle manufacturer to firmly secure the battery in place. This prevents vibration damage during operation.
5. **Final Check:** Double-check all connections to ensure they are tight and properly seated.

Note: Always refer to your vehicle's owner's manual for specific battery installation instructions and safety precautions.

Specifications

Nominal Voltage	12V	
Nominal Capacity (10HR)	6AH	
Dimension	Length	114mm (4.49 inches)
	Width	71mm (2.80 inches)
	Height	130mm (5.12 inches)
	Total Height (with Terminal)	130mm (5.12 inches)
Approximate Weight	2.47 kg (5.44 lbs)	
CCA	100	
Polarity	-/+	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	NB	
Acid Volume	0.34 Liter	
Charge Current	0.60 Amps	
Operating Temp. Range	Discharge:	-20°C (-4°F)~50°C (122°F)
	Charge:	-20°C (-4°F)~50°C (122°F)
	Storage:	-20°C (-4°F)~40°C (104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Self Discharge	SigmasTek ST series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is recommended. For higher temperatures the time interval will be shorter.	



Applications

- ATV
- Jet Ski
- Motorcycle
- Snowmobile
- Lawn & Garden



Image: SigmasTek YTX7L-BS Battery with Dimensions. This image illustrates the physical dimensions of the battery: Length 4.49 inches (114 mm), Width 2.80 inches (71 mm), Height 5.12 inches (130 mm).

OPERATING INSTRUCTIONS

Once properly installed, the SigmasTek YTX7L-BS battery is ready for operation. This AGM battery is designed to provide reliable starting power for your powersport vehicle.

- Ensure all electrical connections are secure before attempting to start your vehicle.
- The battery is factory-activated and sealed, requiring no initial charging or acid filling.
- Operate your vehicle as per its manufacturer's guidelines. The charging system of your vehicle will maintain the battery's charge during use.

MAINTENANCE

The SigmasTek YTX7L-BS is a maintenance-free battery, simplifying its care. However, some general checks are recommended to ensure optimal performance and lifespan.

- **Terminal Inspection:** Periodically inspect the battery terminals for any signs of corrosion. If corrosion is present, disconnect the battery (negative first, then positive) and clean the terminals with a wire brush and a solution of baking soda and water. Rinse with clean water and dry thoroughly before reconnecting.
- **Battery Cleanliness:** Keep the top of the battery clean and dry. Dirt and moisture can lead to self-discharge.
- **Storage:** If the vehicle or battery is stored for extended periods (e.g., off-season), it is recommended to use a trickle charger or battery maintainer specifically designed for AGM batteries. This helps prevent deep discharge and prolongs battery life. SigmasTek ST series batteries can be stored for up to 6 months at 25°C (77°F) before a freshening charge is recommended. For higher storage temperatures, this interval will be shorter.
- **Avoid Deep Discharge:** Do not allow the battery to fully discharge, as this can reduce its overall lifespan.

TROUBLESHOOTING

If you encounter issues with your battery, consider the following troubleshooting steps:

- **Vehicle Not Starting:**

- Check battery connections for tightness and corrosion. Loose or corroded connections can prevent proper power delivery.
- Verify the battery voltage with a multimeter. A fully charged 12V battery should read approximately 12.6V or higher. If the voltage is significantly lower, the battery may be discharged.

- **Battery Discharged:** If the battery is discharged, recharge it using a battery charger compatible with AGM batteries. Follow the charger's instructions carefully. Avoid overcharging, which can damage the battery.

- **Slow Cranking:** This often indicates a low state of charge or a weakening battery. Check voltage and consider recharging or testing the battery's capacity.

- **Battery Not Holding Charge:** After fully charging, if the battery quickly loses its charge, it may indicate an issue with the vehicle's charging system or the battery itself. Consult a qualified technician.

If issues persist after performing these checks, it is recommended to consult a qualified technician or contact SigmasTek customer support.

SPECIFICATIONS

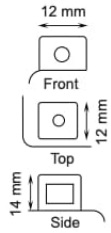
Detailed technical specifications for the SigmasTek YTX7L-BS battery:

Specification	Value
Nominal Voltage	12 Volts
Nominal Capacity (10HR)	6 Ah
Cold Cranking Amps (CCA)	100
Battery Cell Composition	Sealed Lead Acid (AGM)
Dimensions (L x W x H)	4.49" x 2.80" x 5.12" (114mm x 71mm x 130mm)
Approximate Weight	2.47 kg (5.44 lbs)
Charge Current	0.60 Amps
Terminal Type	NB
Acid Volume	0.34 Liter
Operating Temperature Range (Discharge)	-20°C (-4°F) to 50°C (122°F)
Operating Temperature Range (Charge)	-20°C (-4°F) to 50°C (122°F)
Storage Temperature Range	-20°C (-4°F) to 40°C (104°F)

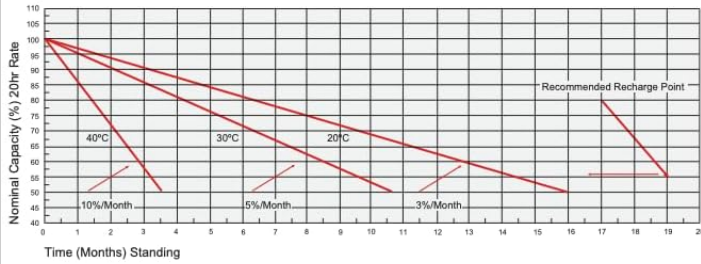
Dimensions

NB Terminal

Unit: mm (inches)



Self Discharge Characteristics



Discharge Characteristics

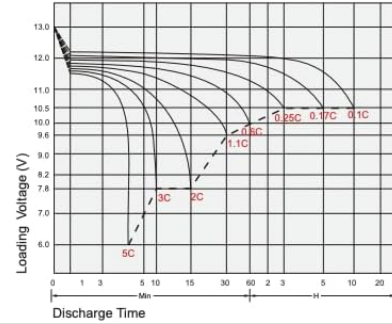


Image: SigmasTek YTX7L-BS Specifications Table. This image provides a detailed table of the battery's electrical and physical specifications, including nominal voltage, capacity, dimensions, and operating temperatures.

WARRANTY INFORMATION

For specific warranty terms and conditions applicable to your SigmasTek YTX7L-BS battery, please refer to the product packaging or the official SigmasTek website. Warranty coverage typically includes defects in materials and workmanship under normal use.

SUPPORT

Should you require technical assistance, have questions regarding installation, maintenance, or troubleshooting, please contact SigmasTek customer support. You can typically find contact information on the product packaging or by visiting the official SigmasTek website.