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› [SigmasTek](#) /

› SigmasTek STX7A-BS Motorcycle Battery User Manual

SigmasTek STX7A-BS

SigmasTek STX7A-BS Motorcycle Battery User Manual

Model: STX7A-BS | Brand: SigmasTek

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your SigmasTek STX7A-BS motorcycle battery. Please read these instructions carefully before installation and operation to ensure proper function and longevity of the product.

The SigmasTek STX7A-BS is an AGM (Absorbent Glass Mat) maintenance-free battery designed for motorcycles and powersports units. It serves as a direct replacement for various models including YTX7A-BS, PTX7A-BS, GTX7A-BS, UTX7A, CYTX7A-BS, and WP7A-BS.

2. SAFETY INFORMATION

WARNING: Batteries contain sulfuric acid and produce explosive gases. Improper handling can lead to serious injury or death. Always observe the following safety precautions:

- Always wear eye protection and gloves when handling batteries.
- Keep away from sparks, open flames, and smoking materials.
- Do not short-circuit battery terminals.
- Keep out of reach of children.
- If battery acid contacts skin or eyes, flush immediately with large amounts of clean water for at least 15 minutes and seek medical attention.
- Do not dispose of batteries in household waste. Recycle responsibly at an authorized battery recycling facility.

3. PRODUCT OVERVIEW AND COMPONENTS

The SigmasTek STX7A-BS battery is a 12V, 6AH (10HR) unit with 105 CCA (Cold Cranking Amps). Its sealed, maintenance-free AGM design ensures reliable performance without the need for electrolyte level checks or water additions.

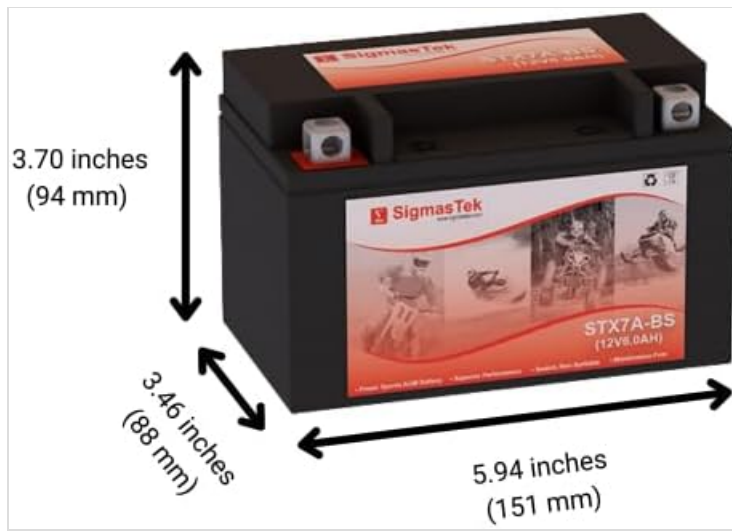


Image showing the SigmasTek STX7A-BS battery with its physical dimensions: Length 5.94 inches (151 mm), Width 3.46 inches (88 mm), Height 3.70 inches (94 mm).

4. SPECIFICATIONS

Refer to the table below for detailed technical specifications of the SigmasTek STX7A-BS battery.



**STX7A-BS
(12V6AH/NB)**

Specifications

Nominal Voltage	12V	
Nominal Capacity (10HR)	6AH	
Dimension	Length	151mm (5.94 inches)
	Width	88mm (3.46 inches)
	Height	94mm (3.70 inches)
	Total Height (with Terminal)	94mm (3.70 inches)
Approximate Weight	2.64 kg (5.81 lbs)	
CCA	105	
Polarity	+/-	
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design	
Terminal Type	NB	
Acid Volume	0.39 Liter	
Charge Current	0.70 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



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Table detailing the technical specifications of the SigmasTek STX7A-BS battery, including Nominal Voltage (12V), Nominal Capacity (6AH), CCA (105), Battery Type (Valve Regulated Lead-Acid Battery, AGM Design), Operating Temp. Range, and recommended storage conditions.

SigmasTek STX7A-BS Battery Specifications

Specification	Value
Nominal Voltage	12V
Nominal Capacity (10HR)	6AH

Specification	Value
CCA (Cold Cranking Amps)	105
Battery Type	Valve Regulated Lead-Acid Battery, AGM Design
Dimensions (Length x Width x Height)	5.94 x 3.46 x 3.7 inches (151 x 88 x 94 mm)
Approximate Weight	5.81 lbs (2.64 kg)
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)
Recommended Charge Current	0.70 Amps
Manufacturer Part Number	STX7A-BS
UPC	842445065172

5. SETUP / INSTALLATION

The SigmasTek STX7A-BS battery is shipped fully charged and ready for immediate installation. Follow these steps for safe and correct installation:

1. Ensure the vehicle's ignition is off and remove the key.
2. Locate the existing battery. Disconnect the negative (-) terminal first, then the positive (+) terminal. This prevents accidental short circuits.
3. Carefully remove the old battery from the battery compartment.
4. Place the new SigmasTek STX7A-BS battery into the battery compartment, ensuring it fits securely.
5. Connect the positive (+) terminal first, then the negative (-) terminal. Ensure all connections are secure and tight.
6. Verify that the battery is properly secured in the compartment to prevent movement during vehicle operation.

6. OPERATING INSTRUCTIONS

This battery is designed for starting motorcycles and powersports vehicles. To maximize its lifespan and ensure reliable performance:

- Ensure the battery is fully charged before initial use.
- Avoid deep discharges, which can significantly reduce battery life.
- If the vehicle is not used for extended periods, consider using a compatible trickle charger to maintain the battery's charge level.

7. MAINTENANCE

The SigmasTek STX7A-BS is an AGM maintenance-free battery and does not require water additions. However, regular checks and proper storage are essential for optimal performance.

Cleaning

Keep the battery terminals clean and free of corrosion. If corrosion is present, use a wire brush and a mixture

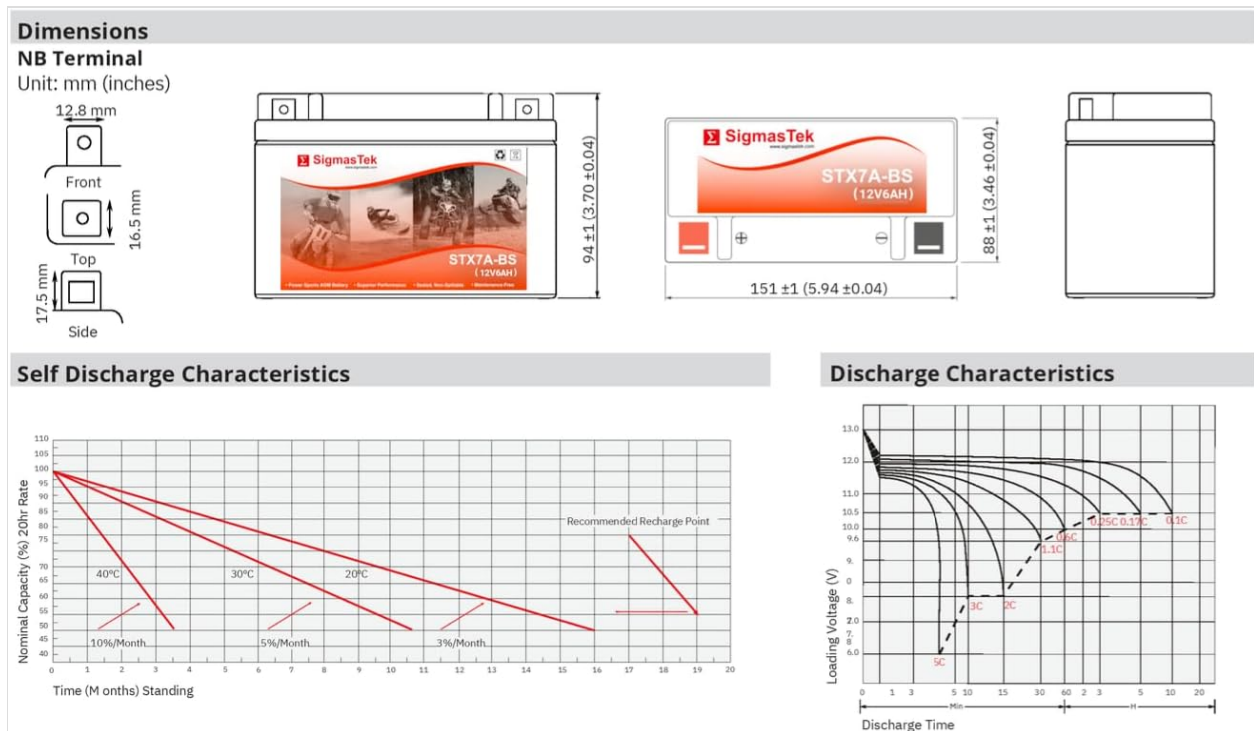
of baking soda and water to clean the terminals. Rinse with clean water and dry thoroughly before reconnecting.

Charging

If the battery voltage drops below 12.4V, recharge it using a compatible motorcycle battery charger. Do not overcharge, as this can damage the battery. The recommended charge current for this battery is 0.70 Amps.

Storage

For optimal lifespan, store the battery in a cool, dry place. SigmasTek ST series batteries can be stored for up to 6 months at 25°C (77°F) before a freshening charge is recommended. Higher storage temperatures will shorten this interval due to increased self-discharge rates. Refer to the discharge characteristics chart for more details on self-discharge behavior.



Graphs illustrating the self-discharge rate over time at various temperatures and the discharge characteristics (loading voltage vs. discharge time) for the SigmasTek STX7A-BS battery.

8. TROUBLESHOOTING

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

- **Vehicle not starting:** Check battery terminals for corrosion and tightness. Ensure the battery is fully charged. If the battery is old and no longer holds a charge, it may need replacement.
- **Dim lights or weak horn:** These symptoms typically indicate a low battery charge. Recharge the battery immediately using a compatible charger.

If issues persist after checking these points, it is recommended to consult a qualified technician for further diagnosis.

9. WARRANTY INFORMATION

The SigmasTek STX7A-BS motorcycle battery comes with a 6-month warranty from the date of purchase. This warranty covers manufacturing defects under normal use and service. Please retain your proof of purchase for warranty claims.

10. SUPPORT

For further assistance, technical inquiries, or warranty claims, please refer to the official SigmasTek website or contact their customer support department. Provide your product model number (STX7A-BS) and proof of purchase when seeking support.