

SigmasTek SP12-7.5

SigmasTek SP12-7.5 12V 7.5Ah SLA Rechargeable Battery Instruction Manual

Model: SP12-7.5

1. INTRODUCTION

This manual provides essential instructions for the safe and effective use of your SigmasTek SP12-7.5 Sealed Lead Acid (SLA) rechargeable battery. Please read this manual thoroughly before installation and operation to ensure proper handling, optimal performance, and longevity of your battery.

The SigmasTek SP12-7.5 is a high-quality, maintenance-free battery designed for various applications requiring a reliable 12 Volt 7.5 Amp Hour power source. It is 100% compatible as a replacement for the AJC D7S battery.

2. PRODUCT OVERVIEW



Image 1: SigmasTek SP12-7.5 12V 7.5Ah SLA Rechargeable Battery. This image shows the compact, rectangular battery with two terminals on top.

The SigmasTek SP12-7.5 battery utilizes Absorbent Glass Mat (AGM) technology, offering superior performance and

reliability. Key features include:

- **Absorbent Glass Mat (AGM) Technology:** Provides efficient gas recombination, eliminating the need for electrolyte maintenance.
- **Maintenance-Free Design:** Spill-proof construction ensures safe operation in various positions.
- **U.L. Recognized and CE Certified:** Meets recognized safety and quality standards.
- **Factory Fresh:** Supplied brand new, ensuring optimal performance from the start.
- **Rechargeable:** Designed for multiple charge and discharge cycles.

3. SAFETY INFORMATION

Always observe the following safety precautions to prevent injury or damage to the battery and equipment:

- **WARNING:** Do not short-circuit the battery terminals. This can cause severe burns, fire, or explosion.
- **WARNING:** Do not disassemble, puncture, or incinerate the battery.
- Keep the battery away from open flames, sparks, and direct heat sources.
- Ensure adequate ventilation when charging to prevent gas accumulation.
- Wear appropriate personal protective equipment (PPE), such as safety glasses and gloves, when handling batteries.
- If battery acid comes into contact with skin or eyes, flush immediately with plenty of water and seek medical attention.
- Dispose of spent batteries according to local regulations. Do not dispose of with household waste.

4. SETUP AND INSTALLATION

This battery is designed as a direct replacement. You will need to reuse your original wire harness and other existing components.

1. **Preparation:** Ensure the device requiring the battery replacement is turned off and disconnected from any power source.
2. **Remove Old Battery:** Carefully disconnect the existing battery, noting the positive (+) and negative (-) terminal connections. Typically, disconnect the negative terminal first, then the positive.
3. **Transfer Components:** Transfer any necessary components, such as the wire harness, from the old battery to the new SigmasTek SP12-7.5 battery. Ensure connections are secure and correct polarity is maintained.
4. **Install New Battery:** Place the new battery into the battery compartment.
5. **Connect Terminals:** Connect the positive (+) terminal first, then the negative (-) terminal. Ensure all connections are tight and secure.
6. **Initial Charge:** It is recommended to fully charge the battery before its first use. Refer to the "Operating Instructions" section for charging guidelines.

Note: This offer does not include the wire harness. You must reuse your original parts.

5. OPERATING INSTRUCTIONS

5.1 Charging

Use a charger specifically designed for 12V Sealed Lead Acid (SLA) batteries. Using an incompatible charger can damage the battery or pose a safety risk.

- Connect the charger's positive lead to the battery's positive (+) terminal and the negative lead to the battery's negative (-) terminal.
- Plug in the charger and allow the battery to charge until fully replenished. Refer to your charger's manual for specific charging times and indicators.
- Avoid overcharging, as this can reduce battery life. Most modern SLA chargers have automatic shut-off features.

5.2 Discharging

The battery is designed to provide consistent power. Avoid deep discharges whenever possible, as this can shorten the battery's lifespan. Recharge the battery promptly after use, especially after significant discharge.

6. MAINTENANCE

- The SigmasTek SP12-7.5 is a maintenance-free battery, but following these guidelines will help ensure its longevity:
- **Keep Clean:** Periodically inspect the battery for dirt, dust, or corrosion on the terminals. Clean with a damp cloth if necessary. Ensure terminals are dry before reconnecting.
 - **Terminal Connections:** Ensure terminal connections remain tight to prevent power loss and overheating.
 - **Storage:** If storing the battery for an extended period, ensure it is fully charged. Store in a cool, dry place, away from direct sunlight and extreme temperatures. Recharge every 3-6 months to prevent self-discharge and maintain capacity.
 - **Temperature:** Operate and store the battery within its specified temperature range to maximize performance and lifespan.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Battery not charging	Charger not connected properly; Faulty charger; Battery deeply discharged; Faulty battery.	Check charger connections; Test charger with another battery (if possible); Attempt a slow, low-current charge; If battery is faulty, replace it.
Short operating time after full charge	Battery capacity degradation; Incomplete charge; High power draw from device.	Ensure full charge cycle; Reduce load on the battery if possible; If battery is old or degraded, consider replacement.
Battery terminals corroded	Exposure to moisture or chemicals; Loose connections.	Clean terminals with a wire brush and baking soda solution (1 part baking soda to 10 parts water), then rinse with clean water and dry thoroughly. Ensure connections are tight.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact customer support.

8. SPECIFICATIONS

Feature	Detail
Model Number	SP12-7.5

Feature	Detail
Brand	SigmasTek
Voltage	12 Volts
Amperage	7.5 Amps (7.5 Ah)
Battery Cell Composition	Sealed Lead Acid (SLA)
Reusability	Rechargeable
Item Dimensions (L x W x H)	5.95 x 2.56 x 3.7 inches
Certifications	U.L. Recognized, CE Certified

9. WARRANTY AND SUPPORT

Your SigmasTek SP12-7.5 battery comes with a **1-Year Warranty** from the date of purchase, covering defects in materials and workmanship.

This warranty does not cover damage caused by misuse, improper installation, neglect, unauthorized modification, or normal wear and tear.

For warranty claims, technical support, or any questions regarding your battery, please contact the seller or SigmasTek customer service directly. Please have your purchase information and model number (SP12-7.5) ready when contacting support.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question