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> SigmasTek SP12-5 12 Volt 5 AmpH SLA Replacement Battery User Manual

## SigmasTek SP12-5

# SigmasTek SP12-5 12 Volt 5 AmpH SLA Replacement Battery User Manual

Model: SP12-5 (12V5AH/T1)

## INTRODUCTION

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This manual provides essential information for the safe and effective use of your SigmasTek SP12-5 12 Volt 5 AmpH Sealed Lead Acid (SLA) Replacement Battery. This battery features Absorbent Glass Mat (AGM) technology and a maintenance-free, spill-proof design, making it suitable for various applications requiring reliable backup power.

## SAFETY INFORMATION

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- Always wear appropriate personal protective equipment, including eye protection and gloves, when handling batteries.
- Do not short-circuit the battery terminals. This can cause severe burns, fire, or explosion.
- Keep the battery away from open flames, sparks, and heat sources.
- Ensure adequate ventilation when charging or operating the battery to prevent accumulation of explosive gases.
- Do not disassemble, puncture, or incinerate the battery.
- In case of contact with battery acid, flush immediately with water and seek medical attention.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).
- Dispose of batteries according to local regulations. Do not dispose of with household waste.

## SETUP

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### Unpacking and Inspection

Upon receiving your battery, carefully inspect it for any signs of damage. If damage is observed, do not attempt to use the battery and contact your supplier.

## Terminal Connection

The SigmasTek SP12-5 battery is equipped with F1 terminals. Ensure that the positive (+) terminal of the battery is connected to the positive lead of your device or charger, and the negative (-) terminal to the negative lead. Use appropriate connectors and ensure a secure, tight connection to prevent arcing and power loss.

## Initial Charge

This battery typically comes fully charged from the factory. However, for optimal performance and longevity, it is recommended to perform a full charge cycle before the first use, especially if the battery has been stored for an extended period.

## OPERATING INSTRUCTIONS

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### Charging

Use a compatible charger designed for 12V Sealed Lead Acid (SLA) batteries. Adhere to the following charging parameters:

- **Floating Use (Standby Application):** Maintain a constant voltage between 13.5V and 13.8V.
- **Cycle Use (Deep Discharge Application):** Charge with a voltage between 14.4V and 15.0V.
- **Initial Current:** Ensure the initial charging current is less than 1.5A.

Overcharging or undercharging can significantly reduce battery life. Always follow the charger manufacturer's instructions.

### Discharge

Avoid deep discharges below the recommended voltage levels for your application, as this can damage the battery. Recharge the battery promptly after discharge.

## MAINTENANCE

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The SigmasTek SP12-5 battery is designed to be maintenance-free. No water addition or electrolyte checks are required.

- **Cleaning:** Keep the battery terminals and casing clean and free of dirt or corrosion. Use a dry cloth for cleaning.
- **Storage:** Store the battery in a cool, dry, and well-ventilated area, away from direct sunlight and extreme temperatures. If storing for extended periods, ensure the battery is fully charged and periodically recharge it every 3-6 months to prevent self-discharge.
- **Temperature:** Operate the battery within its specified temperature range to ensure optimal performance and lifespan.

## TROUBLESHOOTING

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- **Battery Not Holding Charge:** Ensure the charger is functioning correctly and providing the correct voltage and current. Check for loose or corroded terminal connections. The battery may have reached the end of its service life.
- **Device Not Powering On:** Verify that the battery is fully charged and properly connected to the device. Check the device's power input requirements and ensure they match the battery's specifications.
- **Overheating During Charge:** Discontinue charging immediately. This could indicate a faulty charger or an internal battery issue. Ensure proper ventilation.

If you encounter persistent issues, consult the device's manual or contact SigmasTek customer support.

## SPECIFICATIONS



This image displays the SigmasTek SP12-5 (12V5AH/T1) rechargeable sealed lead-acid battery. The battery has a black top with F1 terminals and a light gray body. Dimensions are indicated: approximately 5.14 inches (131 mm) in width, 7.72 inches (196 mm) in length, and 6.14 inches (156 mm) in height. Charging instructions are visible on the label: Floating use 13.5-13.8V, Cycle use 14.4-15.0V, Initial current less than 1.5A. Regulatory symbols for recycling and lead content are also present.

Feature	Detail
Model Number	SP12-5 (12V5AH/T1)
Voltage	12 Volt
Capacity	5 AmpH
Battery Type	Sealed Lead Acid (SLA), Absorbent Glass Mat (AGM) Technology
Terminal Type	F1
Dimensions (Approx.)	5.14 in (131 mm) Width x 7.72 in (196 mm) Length x 6.14 in (156 mm) Height
Item Weight	3.5 pounds
Manufacturer	SigmasTek
ASIN	B00CBD0PBS
Date First Available	April 10, 2013

## COMPATIBILITY

The SigmasTek SP12-5 battery is designed for a wide range of applications and is compatible with various models, including but not limited to:

- **Applications:** Consumer Electronics, Electric Vehicles, Engine Starters, Golf Carts, Hunting, Lawn and Garden Tools, Medical Mobility, Motorcycles, Photography, Power sports, Portable Tools, Solar, Toys and

Hobby, Access Control Devices, Emergency Lighting, Security.

- **Compatible Models:** DJW12-4.5, UB1250, 485LM, CA1240, FP1245, PS-1250, 41A6357-1, NP4-12, 6FM4.5, RT1250, SW1245, 475LM, FP1250, NB12-5, 7000MEDILER3, SAFEWATCHPRO3000, SLA1055, UT-1240, BD-243215, LW-6FM5.5AJ, SB1240.

## WARRANTY

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This SigmasTek SP12-5 battery comes with a **1 Year Warranty** from the date of purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and does not cover damage due to misuse, improper installation, or normal wear and tear.

## SUPPORT

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For technical assistance, troubleshooting, or warranty inquiries, please contact SigmasTek customer support through their official website or the retailer where the product was purchased. Have your model number (SP12-5) and purchase information ready when contacting support.