SigmasTek SP12-2.9

SigmasTek FP1223 12 Volt 2.9 AmpH SLA Replacement Battery Instruction Manual

Model: SP12-2.9

1. Introduction

This manual provides essential instructions for the safe and effective use of your SigmasTek FP1223 12 Volt 2.9 AmpH Sealed Lead Acid (SLA) Replacement Battery. This battery is designed for various applications requiring reliable 12V power, including UPS systems, emergency lighting, security systems, scooters, and wheelchairs. Please read this manual thoroughly before installation and operation.
The SigmasTek FP1223 is compatible with models such as RB1229, PS-1229, FG20201, CP12-2.6, and BT2.9-12.

2. Setup and Installation

2.1 Initial Inspection

Upon receiving your battery, inspect it for any signs of physical damage. If damage is observed, do not proceed with installation and contact your supplier.

2.2 Safety Precautions

- Always wear appropriate personal protective equipment, including safety glasses and gloves, when handling batteries.
- Avoid short-circuiting the battery terminals.
- Do not expose the battery to open flames or excessive heat.
- Ensure proper ventilation during charging and operation.

2.3 Installation Steps

1. Identify the positive (+) and negative (-) terminals on both the new battery and the device it will power. The SigmasTek FP1223 features F1 terminals.
2. Ensure the device is powered off and disconnected from any power source before installation.
3. Connect the positive terminal of the battery to the positive terminal of the device.
4. Connect the negative terminal of the battery to the negative terminal of the device.
5. Secure all connections firmly to prevent loose contacts.

3. Operating Instructions

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The SigmasTek FP1223 is a rechargeable sealed lead-acid battery designed for reliable power delivery.

Image: SigmasTek FP1223 12 Volt 2.9 AmpH Sealed Lead Acid (SLA) battery. The battery is rectangular, white with a black top, and features F1 terminals on the top. Text on the battery casing indicates it is a 'Rechargeable Sealed Lead-Acid Battery (12V2.9AH/T1)' and provides 'CHARGING INSTRUCTION' details: 'Floating use: 13.5-13.8V', 'Cycle use: 14.4-15.0V', 'Initial current: max 0.87A'. Recycling symbols and a UL certification mark are also visible.

3.1 Charging Instructions

For optimal performance and longevity, adhere to the following charging parameters:

- **Floating Use:** 13.5 - 13.8 Volts
- **Cycle Use:** 14.4 - 15.0 Volts
- **Initial Current:** Maximum 0.87 Amperes

Use a charger specifically designed for 12V Sealed Lead Acid batteries that matches these specifications. Overcharging or undercharging can reduce battery life.

3.2 General Usage

Ensure the battery is used within its specified temperature range. Extreme temperatures can affect performance and lifespan. Avoid deep discharges whenever possible to prolong battery life.

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4. Maintenance

4.1 Regular Inspection

Periodically inspect the battery for any signs of swelling, cracks, or corrosion on the terminals. Clean any corrosion with a wire brush and a solution of baking soda and water, then rinse with clean water and dry thoroughly.

4.2 Cleaning

Keep the battery casing clean and free of dust and debris. Use a dry cloth for cleaning. Do not use solvents or harsh chemicals.

4.3 Storage

If the battery will not be used for an extended period, store it in a cool, dry place. Ensure the battery is fully charged before storage and recharge it every 3-6 months to prevent self-discharge and maintain capacity.

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5. Troubleshooting

5.1 Battery Not Holding Charge

- Verify that the charger is functioning correctly and meets the specified voltage and current requirements.

- Check all connections for looseness or corrosion.
- Ensure the battery has not been subjected to extreme temperatures or deep discharges repeatedly.

5.2 Device Not Powering On

- Confirm the battery is fully charged.
- Inspect battery terminals and device connections for proper contact.
- Test the battery voltage with a multimeter to ensure it is within the expected range (approximately 12V when fully charged).

If issues persist after troubleshooting, consult the device's manual or contact customer support.

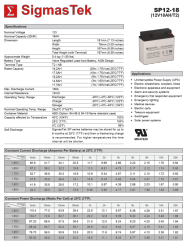
6. Specifications

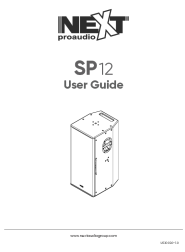
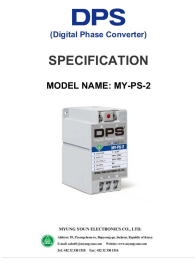
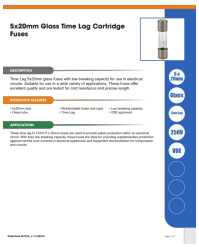
Feature	Specification
Model Number	SP12-2.9
Voltage	12 Volts
Capacity	2.9 Ampere-Hours (AmpH)
Battery Cell Composition	Sealed Lead Acid (SLA)
Terminal Type	F1
Product Dimensions (L x W x H)	7 x 1.38 x 2.36 inches
Item Weight	2.3 pounds
Recommended Uses	Emergency Lighting, Scooters, UPS, Wheelchairs

7. Warranty and Support

This SigmasTek battery typically includes a manufacturer's warranty. Please refer to your purchase documentation or contact your retailer for specific warranty terms and conditions. For technical support or further assistance, please contact SigmasTek customer service or your product supplier.

Related Documents - SP12-2.9

	SigmasTek SP12-18 (12V18AH/T2) Rechargeable Sealed Lead-Acid Battery Datasheet Detailed specifications, performance charts, and application information for the SigmasTek SP12-18 (12V18AH/T2) rechargeable sealed lead-acid battery. Includes dimensions, capacity, discharge rates, temperature effects, and self-discharge characteristics.

	[NEXT SP12 User Guide] Comprehensive user guide for the NEXT SP12 sound reinforcement system, covering safety, overview, specifications, cabling, amplification, and mechanical configurations.
	[MY-PS-2 Digital Phase Converter Specification | MYUNG YOUN ELECTRONICS] Detailed specifications, features, installation diagram, technical data, and cautions for the MY-PS-2 Digital Phase Converter by MYUNG YOUN ELECTRONICS. This device converts single-phase power to three-phase power for motors.
	[R-TECH 5x20mm Glass Time Lag Cartridge Fuses Datasheet] Datasheet for R-TECH 5x20mm glass time lag cartridge fuses, detailing electrical specifications, dimensions, certifications, and part numbers. Suitable for various applications requiring safety protection.
	[Identifying Saab Models: 9-3, 9-5, 900, 9000, 9-2X, 9-7X, 9-4X - InCarTec Guide] A comprehensive guide from InCarTec to identify various Saab car models and their generations, including visual cues, production years, and essential parts for car audio upgrades like steering wheel control interfaces and fascia panels.
	[Optical Post Stand Guide] This guide introduces a lineup of optical post stands and dedicated spacers from an optical components manufacturer, offering fine height adjustment from 12.5mm to 76.2mm. Learn how to combine these components with holders to build stable optical units and achieve lower optical axis configurations.