Enersys NP5-12

EnerSys Genuine NP5-12 Genesis NP Series 12V 5Ah SLA Battery Instruction Manual

Model: NP5-12

1. Introduction

This manual provides essential information for the safe and effective use of your EnerSys Genuine NP5-12 Genesis NP Series 12V 5Ah Sealed Lead-Acid (SLA) Battery. Please read all instructions carefully before installation and operation to ensure optimal performance and safety.

2. Safety Information

WARNING: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Batteries also contain other chemicals known to the State of California to cause cancer. WASH HANDS AFTER HANDLING.
WARNING: Risk of fire, explosion, or burns. Do not disassemble, heat above 60°C (140°F), or incinerate.

DANGER/POISON: SULFURIC ACID

- FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL HELP FAST.
- CAN CAUSE BLINDNESS OR SEVERE INJURY.
- NO SPARKS, SMOKING, FLAMES.
- DO NOT OPEN BATTERY.
- VENTILATE WELL WHEN IN AN ENCLOSED SPACE AND WHEN CHARGING.

Repair should be performed only by a qualified service technician. See installation, maintenance, and operation instructions for important safety precautions.

3. Product Overview

The EnerSys Genuine NP5-12 Genesis NP Series is a high-quality 12V 5Ah Sealed Lead-Acid (SLA) battery designed for reliable power delivery. It is a non-spillable battery, ensuring safe operation in various applications.

Key Features:

- **Voltage:** 12V
- **Capacity:** 5Ah
- **Technology:** Sealed Lead-Acid (SLA)
- **Terminals:** Solder Tab
- **Non-Spillable Design:** Allows for flexible mounting and safe handling.

Image: EnerSys Genuine NP5-12 Genesis NP Series 12V 5Ah SLA Battery, showing its compact design and terminal configuration.

4. Specifications

Feature	Value
Battery Voltage	12V
Battery Capacity	5Ah
Battery Technology	Sealed Lead Acid

External Height	107mm (4.21 inches)
External Width	90mm (3.54 inches)
External Depth	70mm (2.75 inches)
Item Weight	2kg (3.5 pounds)
Battery Terminals	Solder Tab
Float Charge Voltage	13.5-13.8V @ 25°C
Cyclic Charge Voltage	14.4-15.0V @ 25°C
Model Number	ENP5-122
Manufacturer	ENERSYS
Country of Origin	Made in Vietnam

5. Setup and Installation

Before installing the battery, ensure you have read and understood all safety warnings. Always wear appropriate personal protective equipment (PPE) such as safety glasses and gloves.

1. **Inspect the Battery:** Check the battery for any signs of damage, leaks, or corrosion. Do not use a damaged battery.
2. **Prepare the Installation Area:** Ensure the installation area is clean, dry, and well-ventilated. Avoid enclosed spaces without proper airflow.
3. **Identify Terminals:** The battery has clearly marked positive (+) and negative (-) terminals. Ensure correct polarity during connection.
4. **Connect Wiring:** Connect the positive (+) terminal of the battery to the positive lead of your device, and the negative (-) terminal to the negative lead. Ensure connections are secure and tight to prevent arcing or poor performance.
5. **Secure the Battery:** Place the battery in a stable position where it will not be subject to excessive vibration or movement. The non-spillable design allows for mounting in various positions, but ensure it is secure.

General Battery Features Demonstration:

Your browser does not support the video tag.

Video: A general demonstration of Mighty Max batteries, showcasing various features and applications. While not specific to the EnerSys brand, it illustrates common characteristics and uses of similar SLA batteries.

6. Operating Instructions

This battery is a sealed rechargeable lead-acid type, designed for various applications requiring reliable 12V power.

- **Initial Charge:** It is recommended to fully charge the battery before its first use to ensure maximum capacity and lifespan.
- **Charging:** Use a compatible charger designed for 12V SLA batteries. Observe the recommended float charge voltage of 13.5-13.8V @ 25°C and cyclic charge voltage of 14.4-15.0V @ 25°C. Overcharging or

undercharging can reduce battery life.

- **Discharge:** Avoid deep discharges as they can shorten the battery's lifespan. It is best to recharge the battery after each use or when its voltage drops significantly.
- **Ventilation:** Always ensure adequate ventilation when the battery is in an enclosed space or during charging to prevent gas buildup.

7. Maintenance

Proper maintenance will extend the life and performance of your EnerSys NP5-12 battery.

- **Regular Cleaning:** Keep the battery terminals and casing clean and free from dirt, dust, and moisture. Use a dry cloth to wipe the battery.
- **Terminal Inspection:** Periodically check the terminals for corrosion. If corrosion is present, clean it with a wire brush and a solution of baking soda and water, then rinse with clean water and dry thoroughly.
- **Charge Maintenance:** If the battery is not in regular use, store it fully charged and recharge it every 3-6 months to prevent self-discharge and maintain optimal condition.
- **Temperature:** Store and operate the battery within recommended temperature ranges. Extreme temperatures can negatively impact performance and lifespan.

8. Troubleshooting

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

- **Battery Not Holding Charge:**
  - Ensure the charger is functioning correctly and is compatible with SLA batteries.
  - Check for proper connection between the charger and battery terminals.
  - Verify the battery is not over-discharged. A very low voltage might prevent some chargers from initiating a charge.
  - Consider the age of the battery; all batteries have a finite lifespan.
- **Low Power Output:**
  - Ensure the battery is fully charged.
  - Check for loose or corroded terminal connections, which can impede current flow.
  - Verify that the device connected to the battery is not drawing excessive current or has an internal fault.
- **Overheating During Charge:**
  - Ensure the charging environment is well-ventilated.
  - Verify the charger is not faulty or providing too high a current.
  - If overheating persists, discontinue use and consult a qualified technician.

For persistent issues, contact EnerSys customer support or a qualified service technician.

9. Disposal

This battery contains lead (Pb) and other materials that require special handling and disposal. Do not dispose of batteries in household waste.

- Recycle the battery according to local regulations. Many retailers and recycling centers accept used lead-acid batteries.
- Contact your local waste management authority for information on proper recycling and disposal options in your area.

10. Contact Information

For further assistance or inquiries, please visit the official EnerSys website:www.enersys.com