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> [Yuasa](#) /

> [Yuasa Genesis NP7-12 12V/7Ah SLA Battery with F2 Terminal Instruction Manual](#)

Yuasa NP7-12

Yuasa Genesis NP7-12 12V/7Ah SLA Battery with F2 Terminal Instruction Manual

1. INTRODUCTION

This instruction manual provides important information regarding the safe handling, installation, operation, and maintenance of your Yuasa Genesis NP7-12 12V/7Ah Sealed Lead-Acid (SLA) battery. This battery is a valve-regulated, maintenance-free unit designed for various applications, including uninterruptible power supplies (UPS), alarm systems, and other devices requiring reliable 12V power.

Please read this manual thoroughly before using the battery to ensure proper function and longevity.



Figure 1.1: General view of the Yuasa Genesis NP7-12 battery.

2. SAFETY INFORMATION

WARNING: Lead-acid batteries contain lead and sulfuric acid. Improper handling can cause injury or damage. Always follow these safety guidelines.

- **Eye Protection:** Always wear appropriate eye protection (safety glasses or goggles) when handling batteries.
- **Skin Protection:** Wear gloves and protective clothing to prevent contact with battery acid.
- **Ventilation:** Although sealed, ensure adequate ventilation during charging to dissipate any gases that may be released under fault conditions. Do not charge in a gas-tight container.
- **Avoid Short Circuits:** Do not short-circuit the battery terminals. This can cause severe burns, fire, or explosion. Remove all metallic jewelry before working with batteries.
- **Fire Hazard:** Keep sparks, flames, and smoking materials away from batteries.
- **Lifting:** The battery weighs approximately 5.2 lbs (2.36 kg). Lift with care to avoid injury.
- **Disposal:** Dispose of spent batteries according to local regulations. Do not incinerate.
- **Proposition 65 Warning:** This product contains chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

3. PRODUCT FEATURES

The Yuasa Genesis NP7-12 battery offers reliable performance with the following key features:

- **Voltage:** 12 Volts
- **Capacity:** 7 Amp-hours (7Ah)
- **Terminal Type:** F2 (0.250" or 1/4" wide slide-on tab)
- **Battery Type:** Valve Regulated Sealed Lead-Acid (VRLA)
- **Maintenance-Free:** Designed for hassle-free operation.
- **Non-Spillable:** Can be operated in any orientation without loss of performance or electrolyte leakage (except for continuous inverted use).



Figure 3.1: Yuasa NP7-12 battery showing key specifications and warnings.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your Yuasa Genesis NP7-12 battery:

1. **Inspect the Battery:** Before installation, visually inspect the battery for any signs of damage, cracks, or leaks. Do not install a damaged battery.
2. **Identify Terminals:** The NP7-12 features F2 terminals. Ensure your application's connectors are compatible with F2 (0.250" wide) spade terminals. Some older systems may use F1 (0.187" wide) terminals, requiring an adapter or modification.



Figure 4.1: Comparison of F1 and F2 terminal types. The NP7-12 uses F2 terminals.

3. **Prepare Connections:** Ensure the equipment is turned off and disconnected from its power source before connecting the battery.
4. **Connect Terminals:** Connect the positive (+) terminal of the battery to the positive lead of your equipment, and the negative (-) terminal to the negative lead. Ensure connections are secure and tight to prevent arcing or poor performance.
5. **Secure Battery:** Place the battery in a stable position within the equipment compartment, ensuring it is not subjected to excessive vibration or movement.



Figure 4.2: Close-up view of an F2 terminal, which is 0.250 inches wide.

5. OPERATING INSTRUCTIONS

The Yuasa Genesis NP7-12 is a rechargeable battery designed for float or cyclic applications. Once installed, it typically operates as part of a larger system (e.g., UPS, alarm panel) that manages its charging and discharge cycles.

- **Initial Charge:** While batteries are typically shipped with some charge, it is recommended to fully charge the battery before its first use, especially if it has been stored for an extended period. Refer to your equipment's manual for specific charging instructions.
- **Float Use:** In UPS or alarm systems, the battery is usually kept on a continuous float charge, meaning it is constantly maintained at a full charge and only discharges during a power outage or alarm event.
- **Cyclic Use:** For applications where the battery is regularly discharged and recharged, ensure the charging system is appropriate for sealed lead-acid batteries to prevent overcharging or deep discharging, which can reduce battery life.
- **Temperature:** Operate the battery within its specified temperature range (typically 20°C to 25°C or 68°F to 77°F for optimal life). Extreme temperatures can affect performance and lifespan.

6. MAINTENANCE

The Yuasa Genesis NP7-12 is a maintenance-free battery, meaning it does not require electrolyte top-ups. However, regular inspection and proper care can help maximize its lifespan and ensure reliable operation.

- **Regular Inspection:** Periodically check the battery for any physical damage, swelling of the casing, or corrosion on the terminals.
- **Terminal Cleaning:** Keep the terminals clean and free of dirt or corrosion. Use a dry cloth to wipe them if necessary. Do not use abrasive cleaners.
- **Storage:** If storing the battery, ensure it is fully charged and stored in a cool, dry place. Recharge the battery every 3-6 months during storage to prevent sulfation and capacity loss.
- **Expected Lifespan:** Under optimal conditions and proper charging, these batteries typically last 3-5 years in float applications. Factors like frequent deep discharges, high temperatures, and improper charging can significantly reduce lifespan.

7. TROUBLESHOOTING

If you encounter issues with your Yuasa Genesis NP7-12 battery, consider the following common troubleshooting steps:

- **Battery Not Holding Charge:**
 - Verify the charging system is functioning correctly and providing the appropriate voltage for a 12V SLA battery.
 - Check the age of the battery. Batteries have a finite lifespan and may need replacement after several years of service.
 - Ensure there are no parasitic drains on the battery when the equipment is off.
- **Incorrect Terminal Fit:**
 - The NP7-12 uses F2 terminals (0.250" wide). If your equipment requires F1 terminals (0.187" wide), you will need F1 to F2 adapters or may need to carefully modify the F2 terminals to fit, if feasible and safe.
 - Ensure the spade connectors from your equipment are not bent or damaged.
- **Low Voltage Output:**
 - Measure the battery voltage with a multimeter. A fully charged 12V SLA battery should read approximately 12.7-12.9V.
 - If the voltage is significantly lower, the battery may be discharged or at the end of its life.
- **Physical Damage/Swelling:**
 - If the battery casing is swollen, cracked, or leaking, discontinue use immediately. This indicates a severe internal fault, and the battery should be safely replaced and disposed of.

8. SPECIFICATIONS

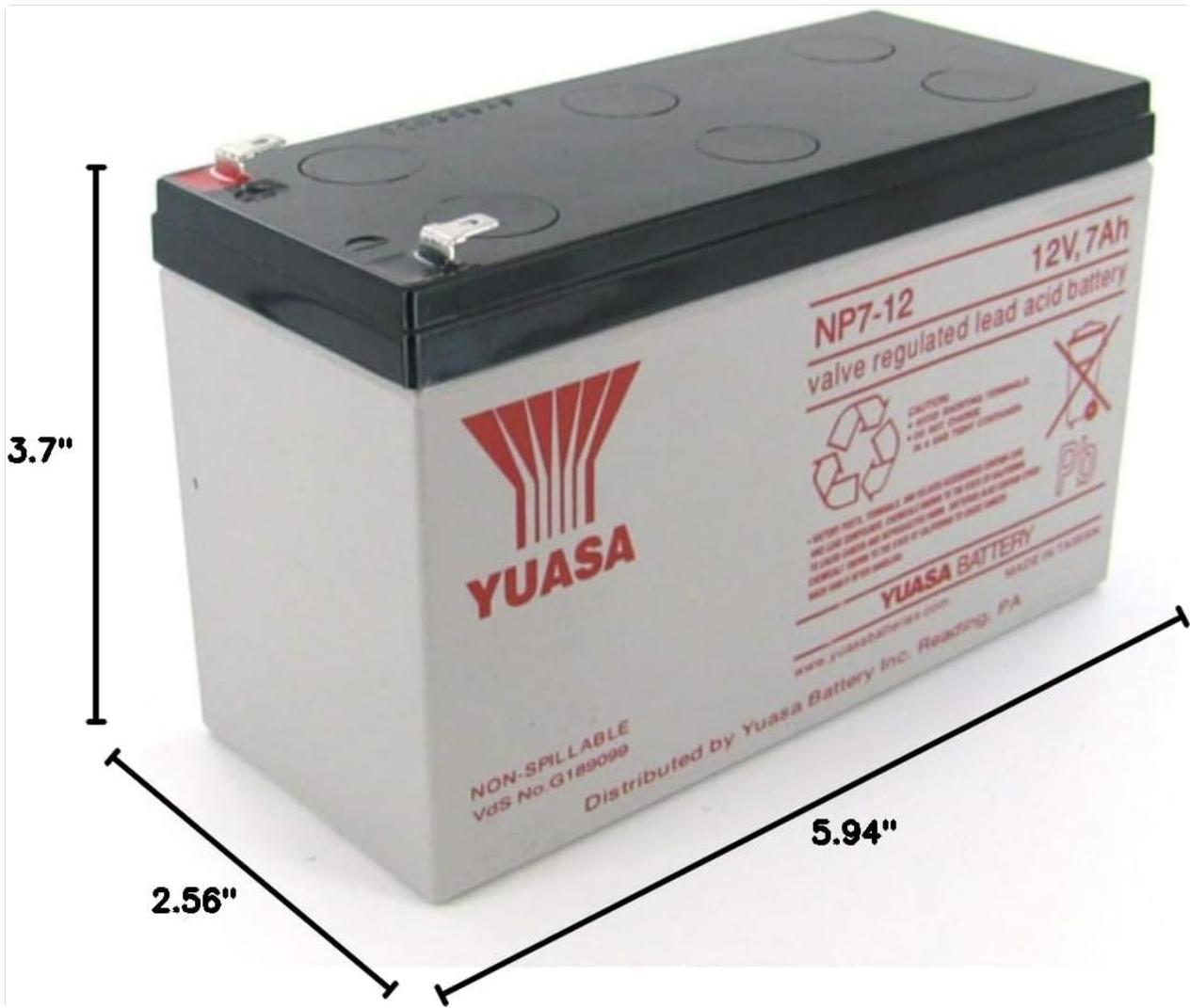


Figure 8.1: Dimensions of the Yuasa Genesis NP7-12 battery.

Specification	Value
Model Number	NP7-12
Brand	Yuasa
Voltage	12 Volts (DC)
Capacity	7 Amp Hours (7Ah)
Terminal Type	F2 Terminal (0.250" wide)
Battery Cell Composition	Lead Acid
Number of Cells	6
Dimensions (L x W x H)	5.94" x 2.56" x 3.7" (151mm x 65mm x 94mm)
Weight	Approximately 5.2 lbs (2.36 kg)
Operating Temperature Range	Refer to Yuasa datasheet for specific ranges; typically 20°C to 25°C (68°F to 77°F) for optimal life.

9. WARRANTY AND SUPPORT

Yuasa batteries are manufactured to high-quality standards. For specific warranty information, please refer to the warranty documentation provided with your purchase or visit the official Yuasa website. Warranty terms typically cover manufacturing defects for a specified period from the date of purchase.

For technical support, service, or warranty claims, please contact Yuasa customer service directly through their official channels. Ensure you have your battery's model number and purchase details available when contacting support.

Manufacturer: Yuasa Corporation

This manual is for informational purposes only. Yuasa reserves the right to make changes without prior notice.