

Generac 6346

Generac 6346 30-Amp 125/250V Aluminum Power Inlet Box Instruction Manual

Model: 6346 | Brand: **Generac**

1. INTRODUCTION

The Generac 6346 30-Amp 125/250-Volt Power Inlet Box is designed for safe and reliable outdoor connection of a portable generator to an indoor transfer switch. This NEMA 3R-rated, corrosion-resistant aluminum enclosure ensures secure power transfer to your home or building during electrical outages.

This power inlet box is compatible with Generac generators equipped with 30-Amp outlets, including models such as GP3250, LP3250, XG4000, XP4000, GP5500, GP6500E, GP7500E, XG6500, XG7000E, XG8000E, XP6500E, and XP8000E. It is also compatible with Generac transfer switches model numbers 6376, 6377, 6378, 6379, and 6382.



Figure 1: Generac 6346 30-Amp Power Inlet Box.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock or Fire.

- Installation of this power inlet box must be performed by a qualified, licensed electrician in accordance with all applicable electrical codes and standards.

- Do not attempt installation or wiring if you are not qualified. Improper installation can result in serious injury, death, or property damage.
- Always disconnect all power sources before installing or servicing the power inlet box.
- Ensure the generator is properly grounded before connecting it to the inlet box.
- Never operate a generator indoors or in enclosed spaces. Generators produce carbon monoxide, a colorless, odorless, poisonous gas.

3. SETUP AND INSTALLATION

The Generac 6346 Power Inlet Box is designed for exterior mounting on a house or building. It must be hardwired to an appropriate indoor transfer switch.

3.1. Mounting Location

- Select an outdoor location that is easily accessible for generator connection but protected from direct impact.
- Ensure the location allows for proper routing of conduit and wiring to the indoor transfer switch.
- The NEMA 3R rating provides protection against rain, sleet, and external ice formation.

3.2. Wiring and Connection

- The inlet box features 1/2-inch and 3/4-inch EMT knockouts for conduit entry.
- Hardwire the inlet box to your transfer switch using appropriate gauge wiring for 30-Amp, 125/250V service.
- Ensure all connections are tight and secure.



Figure 2: Dimensions of the Generac 6346 Power Inlet Box (approximately 6.7 inches in height).

4. OPERATING INSTRUCTIONS

Once the Generac 6346 Power Inlet Box is professionally installed and wired to your transfer switch, follow these steps to operate your generator during a power outage:

1. **Position Generator:** Place your portable generator outdoors in a well-ventilated area, away from windows, doors, and vents to prevent carbon monoxide accumulation.
2. **Connect Power Cord:** Open the spring-loaded flip lid cover on the Generac 6346 Power Inlet Box. Connect a compatible Generac power cord (NEMA L14-30 configuration) from your 7500-Watt

maximum generator to the inlet box. Ensure the connection is firm.

- Start Generator:** Follow your generator's manufacturer instructions to start it. Allow the generator to run for a few minutes to stabilize.
- Transfer Power:** Go to your indoor transfer switch and follow its instructions to safely transfer power from the utility to the generator.
- Monitor Load:** Do not exceed the generator's rated wattage (7500 Watts maximum for this inlet box).
- Shut Down:** When utility power is restored, reverse the transfer switch procedure to switch back to utility power. Then, shut down your generator according to its manual and disconnect the power cord from the inlet box. Close the flip lid cover.

5. MAINTENANCE

The Generac 6346 Power Inlet Box is constructed from NEMA 3R-rated corrosion-resistant aluminum, designed for durability and minimal maintenance. Regular inspection is recommended to ensure continued safe operation.

- Visual Inspection:** Periodically inspect the inlet box for any signs of physical damage, corrosion, or loose components.
- Lid Operation:** Ensure the spring-loaded flip lid cover opens and closes smoothly and seals properly to protect the inlet from weather elements. If the lid mechanism appears faulty, inspect for obstructions or damage.
- Cleaning:** Keep the exterior of the box clean from dirt, debris, and insect nests. Use a damp cloth for cleaning; avoid harsh chemicals.
- Professional Check:** Consider having a qualified electrician inspect your entire generator connection system periodically, especially after severe weather events.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with the Generac 6346 Power Inlet Box. Always ensure the generator itself is functioning correctly before troubleshooting the inlet box.

Problem	Possible Cause	Solution
No power to transfer switch after generator connection.	Generator not running or producing power. Power cord not fully seated in inlet box or generator. Transfer switch not correctly engaged. Internal wiring issue (requires electrician).	Check generator fuel, oil, and start procedures. Ensure power cord is securely plugged into both the inlet box and the generator. Refer to your transfer switch manual for proper operation. Contact a qualified electrician for inspection.
Flip lid cover does not close or open smoothly.	Debris or obstruction in hinge mechanism. Damaged spring or hinge.	Clean the hinge area. Inspect for physical damage. If damaged, contact Generac support for replacement parts.

Problem	Possible Cause	Solution
Visible damage to the inlet box.	Physical impact or environmental exposure.	Do not use if damaged. Contact a qualified electrician for assessment and replacement if necessary.

7. SPECIFICATIONS

- **Model:** 6346
- **Amperage:** 30-Amp
- **Voltage:** 125/250V
- **Maximum Generator Wattage:** 7500 Watts
- **NEMA Configuration:** L14-30
- **Material:** Aluminum
- **Finish Type:** Painted
- **Installation Type:** Screw-In
- **Dimensions (L x W x H):** Approximately 5 x 7 x 5 inches
- **Item Weight:** Approximately 1.6 Pounds
- **Environmental Rating:** NEMA 3R (Rain tight)
- **Certifications:** UL Listed
- **Country of Origin:** Made in the USA

8. WARRANTY INFORMATION

The Generac 6346 30-Amp 125/250V Aluminum Power Inlet Box is backed by a **2-year limited warranty**. This warranty covers defects in materials and workmanship under normal use and service. For full warranty terms and conditions, please refer to the official Generac warranty documentation included with your product or visit the Generac website.

9. CUSTOMER SUPPORT

For technical assistance, warranty claims, or to inquire about replacement parts, please contact Generac Customer Service. Ensure you have your product model number (6346) and purchase date available when contacting support.

Generac Official Website: www.generac.com

Note: Generac power inlet boxes should be installed by a professional electrician familiar with electrical wiring and code.