

Connecticut Electric EGSPI50

Connecticut Electric EGSPI50 50A Rainproof Generator Power Inlet Box

User Manual

1. INTRODUCTION AND PRODUCT OVERVIEW

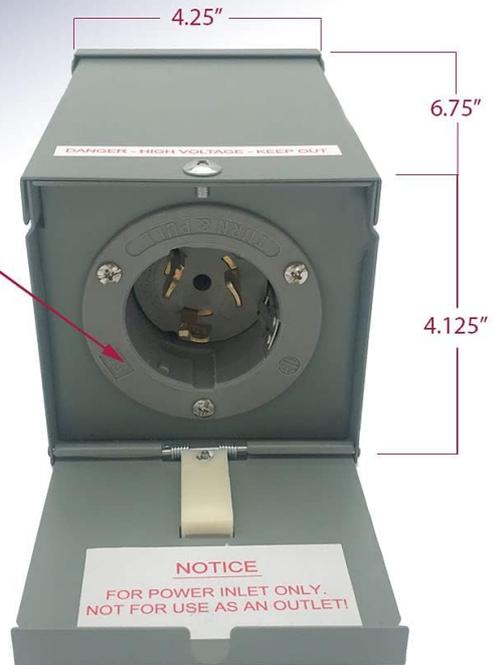
The Connecticut Electric EGSPI50 is a prewired 50-Amp rainproof generator power inlet box designed to provide a safe and reliable connection point for portable generators to your home's electrical system. This robust unit is built to withstand outdoor elements, ensuring dependable backup power during outages.

Key Features:

- 50-Amp, 120/240 VAC rating
- 12,000-watt maximum capacity
- Prewired with 6-inch pigtails for simplified installation
- NEMA Type 3R rainproof enclosure for outdoor use
- Spring-loaded door for enhanced weather protection
- Integrated 1/2-inch and 3/4-inch knockouts for flexible wiring
- UL listed for safety in the United States and Canada

EmerGen Switch®

Rainproof Power Inlet Box



MODEL EGSP150

- 120/240 VAC 50 Amps
- 12000 Watts Maximum
- 6" Pigtails for Wire Connections
- Spring-Loaded Door Closes When Cable is Removed
- NEMA Type 3R Enclosure
- Listed for US and Canadian Use



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ELECTRIC**
WE POWER HOMES

Figure 1.1: Connecticut Electric EGSP150 Power Inlet Box highlighting key features and dimensions.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. Installation and service of this equipment should be performed only by qualified, licensed electricians. Failure to follow these instructions may result in serious injury or death.

- Always disconnect power at the main service panel before installing or servicing the inlet box.
- Ensure all local and national electrical codes (e.g., NEC, CEC) are strictly followed.
- Use appropriate personal protective equipment (PPE) during installation.
- Verify proper grounding and bonding of the system.
- Do not use this product as an outlet. It is for power inlet only.



Figure 2.1: Front view of the EGSP150 inlet box, showing the receptacle and prominent safety warnings.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- Connecticut Electric EGSP150 50A Rainproof Generator Power Inlet Box (prewired with 6-inch pigtails)
- Installation hardware (typically mounting screws, though not explicitly listed, are usually included)
- User Manual (this document)

4. SETUP AND INSTALLATION

This section provides general guidance for the installation of the EGSP150 inlet box. Consult a qualified electrician for specific installation requirements and to ensure compliance with all applicable codes.

4.1. Pre-Installation Considerations

- **Location:** Choose a suitable outdoor location near your main electrical panel or transfer switch. The location should be easily accessible for generator connection and away from windows, doors, or vents to prevent carbon monoxide entry.
- **Tools Required:** Standard electrical tools, drill, appropriate drill bits (including step bit for knockouts if needed), wire strippers, screwdrivers, voltage tester.
- **Wiring:** Ensure you have the correct gauge wire for a 50-Amp circuit (e.g., #6 AWG copper for NM-B cable or #8 AWG THWN individual wires in conduit).

4.2. Mounting the Inlet Box

1. Select a flat, stable surface for mounting.
2. Open the inlet box cover.
3. Mark the mounting hole locations on the surface using the box as a template.
4. Drill pilot holes if necessary.
5. Securely fasten the inlet box to the surface using appropriate mounting hardware.



Figure 4.1: Top-down view of the EGSP150 inlet box, showing the sealed cover and knockouts on the sides.

4.3. Wiring the Inlet Box

The EGSP150 comes prewired with 6-inch pigtails for connection. You may choose to remove these pigtails and wire directly if preferred, ensuring proper wire gauge and termination.

1. Turn off all power at the main service panel. Verify with a voltage tester.
2. Identify the appropriate knockout(s) for your wiring entry. The box includes 1/2-inch and 3/4-inch knockouts.
3. Remove the chosen knockout(s) and install a suitable cable connector or conduit fitting.
4. Route the generator feeder cable from your transfer switch or main panel to the inlet box.
5. Connect the wires from the feeder cable to the corresponding pigtails or terminals inside the inlet box:
 - **Black and Red Wires:** Connect to the two hot lines (L1 and L2).

- **White Wire:** Connect to the neutral line.
 - **Green Wire (or bare copper):** Connect to the ground terminal.
6. Ensure all connections are tight and secure.
 7. Carefully arrange wires inside the box to avoid pinching or damage.
 8. Close and secure the inlet box cover.





Figure 4.2: Internal view of the EGSPI50 inlet box, showing the prewired pigtails and connection points.



Figure 4.3: Side view of the EGSPI50 inlet box with the cover open, illustrating internal space for wiring.

5. OPERATING INSTRUCTIONS

Once the EGSPI50 generator power inlet box is properly installed and wired to a transfer switch or interlock kit, follow these steps to safely connect and operate your portable generator:

1. Ensure your portable generator is turned off and unplugged from any other loads.
2. Connect the appropriate generator power cord (e.g., CS6375 or SS2-50P compatible) to the receptacle on the EGSPI50 inlet box. Ensure a secure connection.
3. Connect the other end of the generator power cord to your portable generator's output receptacle.
4. Start your portable generator according to its manufacturer's instructions. Allow it to stabilize.
5. At your main electrical panel, follow the instructions for your transfer switch or interlock kit to safely transfer power from the utility to the generator. This typically involves turning off the main utility

- breaker, then engaging the generator breaker.
6. Once power is transferred, you can selectively turn on circuits in your home as needed, ensuring not to exceed the generator's capacity.
 7. To disconnect, reverse the process: turn off generator-fed circuits, disengage the generator breaker, re-engage the main utility breaker, shut down the generator, and then disconnect the power cord from the inlet box and generator.

6. MAINTENANCE

The Connecticut Electric EGSP150 is designed for durability and minimal maintenance. However, periodic inspection is recommended to ensure continued safe and reliable operation:

- **Visual Inspection:** Annually inspect the inlet box for any signs of physical damage, corrosion, loose connections, or wear. Check the integrity of the NEMA Type 3R enclosure and the spring-loaded door.
- **Cleaning:** Keep the exterior of the box clean and free of debris. Use a damp cloth if necessary. Do not use abrasive cleaners or solvents.
- **Receptacle Check:** Ensure the receptacle is free of dirt, moisture, or foreign objects. The spring-loaded cover should close securely when no cord is connected.
- **Professional Check:** Consider having a qualified electrician inspect your entire generator connection system periodically, especially after severe weather events.

7. TROUBLESHOOTING

If you encounter issues with your EGSP150 generator power inlet box, consider the following basic troubleshooting steps. For complex electrical issues, always consult a qualified electrician.

- **No Power to Home:**
 - Ensure the generator is running and producing power.
 - Verify the generator power cord is securely connected at both the generator and the inlet box.
 - Check the transfer switch or interlock kit settings at your main panel to ensure power is correctly routed from the generator.
 - Check for tripped breakers on the generator or in your main electrical panel.
- **Loose Connection:**
 - If the power cord feels loose in the inlet box, inspect the receptacle for damage. Do not force connections.
- **Water Inside Box:**
 - Ensure the spring-loaded cover is closing properly when no cord is connected.
 - Check for any cracks or damage to the enclosure. If found, the unit may need replacement.

If you are unsure about any electrical issue, do not attempt to fix it yourself. Contact a licensed electrician.

8. SPECIFICATIONS

| Attribute | Value |
|-----------|-------|
|-----------|-------|

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|------------------------|-----------------------------------|
| Model | EGSPI50 |
| Amperage Rating | 50-Amp |
| Voltage Rating | 120/240 VAC |
| Maximum Capacity | 12,000 Watts |
| Enclosure Type | NEMA Type 3R (Rainproof) |
| Knockouts | 1/2-inch and 3/4-inch |
| Material | Alloy Steel |
| Dimensions (D x W x H) | 10.8D x 17.1W x 10.5H Centimetres |
| Certifications | UL Listed (US and Canada) |

9. WARRANTY AND SUPPORT

For information regarding the product warranty, please refer to the warranty documentation included with your purchase or visit the official Connecticut Electric website. Warranty terms and conditions may vary. For technical support, installation assistance, or to inquire about replacement parts, please contact Connecticut Electric customer service directly. Contact information can typically be found on the manufacturer's website or product packaging.

Manufacturer: Connecticut Electric