

Connecticut Electric EGS107501G2KIT

Connecticut Electric EmerGen 30 Amp, 10-Circuit, 7500 Watt Transfer Switch Kit User Manual

MODEL: EGS107501G2KIT

1. Introduction

This manual provides detailed instructions for the safe and efficient installation, operation, and maintenance of your Connecticut Electric EmerGen 30 Amp, 10-Circuit, 7500 Watt Transfer Switch Kit. This kit is designed to safely connect a portable generator to your home's electrical system during power outages, ensuring essential circuits remain operational. Please read this manual thoroughly before attempting any installation or operation.

2. Safety Information

WARNING: Electrical installation should only be performed by a qualified electrician in accordance with all national and local electrical codes. Failure to follow these instructions can result in serious injury, death, or property damage.

- Always disconnect utility power before working on the transfer switch or main electrical panel.
- Ensure your generator is properly grounded.
- Never operate a generator indoors or in enclosed spaces. Generators produce carbon monoxide, a colorless, odorless, and deadly gas.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm (Proposition 65 warning).
- The transfer switch is designed to prevent back-feeding power to the utility grid, which can endanger utility workers. Always verify proper operation.

3. Package Contents

Verify that all components are present in your kit:

- EmerGen 10-Circuit Transfer Switch (30 Amp, 7500 Watt)
- NEMA L14-30 Power Inlet Box

- 10-Foot Generator Power Cord (NEMA L14-30)
- Installation Hardware
- Instruction Manual



Figure 3.1: Complete EmerGen Transfer Switch Kit showing the transfer switch, power inlet box, and 10-foot power cord.

4. Setup and Installation

Installation of this transfer switch requires electrical expertise. It is strongly recommended that a licensed electrician perform the installation to ensure compliance with all applicable electrical codes and safety standards.

4.1 Mounting the Transfer Switch

The transfer switch can be mounted indoors or outdoors. Its NEMA 3R rainproof rating ensures protection against environmental elements when installed outdoors. Choose a location near your main electrical panel that allows for easy access and proper wiring.



Figure 4.1: The EmerGen Transfer Switch with its cover open, showing the internal circuit breakers and watt meters.

4.2 Mounting the Power Inlet Box

The power inlet box should be mounted outdoors, away from windows, doors, and vents, to ensure safe generator operation and prevent carbon monoxide entry into the building. Connect the 10-foot generator power cord to this inlet.





Figure 4.2: Side view of the transfer switch, illustrating the conduit entry points for electrical wiring.

4.3 Electrical Connections

The transfer switch connects directly to your main electrical panel. Specific circuits from your main panel will be rerouted through the transfer switch. The generator power cord connects the outdoor power inlet box to your portable generator.

The transfer switch features four 2-pole 240-volt circuits, suitable for applications like well pumps or sump pumps. If 240-volt circuits are not required, the tie bars can be removed to convert these into eight additional single-pole 120-volt circuits, providing a total of ten 15A and 20A circuits.

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Video 4.3: A demonstration of the Transfer Switch Kit, showing its components and basic functionality. This video provides a visual overview of the product and its intended use.

5. Operating Instructions

Follow these steps to safely transfer power from utility to generator and back:

1. **During a Power Outage:** Ensure all sensitive electronics are turned off or unplugged.
2. **Connect Generator:** Plug the 10-foot generator power cord into the outdoor power inlet box and then to your portable generator.
3. **Start Generator:** Start your portable generator according to its manufacturer's instructions. Allow it to warm up for a few minutes.
4. **Transfer Circuits:** On the transfer switch, individually flip the rocker switches from 'LINE' to 'GEN' for the circuits you wish to power. Observe the built-in watt meters to monitor the load and avoid overloading your generator.
5. **Restore Utility Power:** When utility power is restored, flip the rocker switches back from 'GEN' to 'LINE'.
6. **Shut Down Generator:** Turn off your generator and disconnect the power cord.

The transfer switch isolates the two power sources, preventing back-feeding into the utility line. The main breaker in your home panel does not need to be turned off to use the transfer switch.

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Video 5.1: An informational video from Connecticut Electric explaining the features and operation of the transfer switch, including how it manages power sources.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your transfer switch:

- **Annual Inspection:** Have a qualified electrician inspect the transfer switch and all connections annually.
- **Cleanliness:** Keep the exterior of the transfer switch and power inlet box clean and free of debris.
- **Connection Check:** Periodically inspect the generator power cord for any signs of damage or wear. Ensure all connections are secure.

7. Troubleshooting

If you encounter issues, consider the following common solutions:

- **No Power to Circuits:**
 - Ensure the generator is running and producing power.
 - Verify the generator power cord is securely connected.
 - Check that the individual circuit switches on the transfer switch are in the 'GEN' position.
 - Inspect the circuit breakers on the transfer switch and your generator for trips. Reset if necessary.
- **Overload Indication:** If watt meters show an overload or the generator struggles, reduce the number of active circuits or appliances.
- **Unusual Noises/Smells:** Immediately shut down the generator and disconnect all power. Contact a qualified electrician for inspection.

8. Specifications

Feature	Specification
Operation Mode	ON-OFF
Current Rating	30 Amps
Operating Voltage	240 Volts
Contact Type	Normally Closed
Connector Type	Plug In
Terminal	Screw
Item Dimensions (L x W x H)	11.5 x 20.5 x 14.5 inches
Circuit Type	1-way
Actuator Type	Hinge Lever
Contact Material	Alloy Steel
International Protection Rating	IP54
Number of Positions	10
Upper Temperature Rating	180 Degrees Fahrenheit
Control Method	Touch
Connectivity Protocol	X-10
Color	Grey
Wattage	7500 watts
Unit Count	1.0 Count
Number of Items	1
Manufacturer	Connecticut Electric
Control Type	manual
Compatible Devices	Challenger, Cutler Hammer, GE, Homeline, Siemens, Square D, Westinghouse
UPC	094925033588
Part Number	EGS107501G2KIT
Item Weight	27.4 pounds
Installation Method	Outdoor
Included Components	Inlet Box

Feature	Specification
Warranty Description	5-Year

Appliance	Running Wattage	Start-Up Wattage
Furnace Fan (gas or fuel)		
1/8 Horsepower	300	500
1/6 Horsepower	500	750
1/4 Horsepower	600	1000
1/3 Horsepower	700	1400
1/2 Horsepower	875	2350
Well Pump		
1/3 Horsepower	750	1400
1/2 Horsepower	1000	2100
Sump Pump		
1/3 Horsepower	800	1300
1/2 Horsepower	1050	2150
Light Bulbs (incandescent)	as marked	0
Refridgerator or Freezer	700	2200
Garage Door Opener		
1/4 Horsepower	550	1100
1/3 Horsepower	725	1400
Microwave Oven (600 watt)	600	800
Television	300	0
Coffe Maker (typical)	1750	0
Dehumidifier	650	800
Portable Heater	1000 - 1500	0
Water Heater	3500	0

Figure 8.1: A chart providing estimated running and start-up wattage for various common household appliances, useful for load management.

9. Warranty and Support

This Connecticut Electric EmerGen Transfer Switch Kit comes with a 5-Year Warranty. For warranty claims, technical support, or any questions regarding your product, please contact Connecticut Electric customer service. Refer to the contact information provided with your product packaging or visit the official Connecticut Electric website for assistance.