

EmerGen Switch

Operation Guide

Post this document on or near your EmerGen Switch

In the event of a power outage, the following steps should be taken to provide generator power to your home:

1. Leave all switches on the EmerGen Switch in the LINE position. It is not necessary to shut off the MAIN breaker in your breaker panel.
2. Move your generator to its operating location. Use care to ensure that carbon monoxide gas from the generator exhaust does not enter your home.
3. Plug the power cord into the generator and the Inlet Box.
4. Start generator and allow 10 minute warm up time.
5. Switch the desired circuits to the GEN position. Take note of the wattage indicated on the two watt meters. Attempt to balance the two meters to within 1000W of each other. Do not exceed the maximum wattage printed on the meters.

When Utility power is restored, take the following steps to return to Utility power:

1. Move any switches that are in the GEN position to the LINE position.
2. Shut down the generator. NOTE – never start or shut down your generator with any of the switches in the GEN position.
3. Unplug and store the power cord.

Frequently Asked Questions

Load Balancing

Attempt to balance the loads indicated on the two EmerGen watt meters to within 1000 watts of each other. This will prevent undue wear on the generator. Load balance has no effect on the EmerGen transfer switch.

Max Load per Circuit

The maximum size circuit breaker in the homes utility panel that can be connected through the EmerGen Switch is 20A. Connecting to a circuit breaker larger than 20A will damage the internal components and wiring of the switch.

Max Power Cord length from generator

The National Electrical code recommends a maximum voltage drop of 3% of the supply voltage. Based on the 3% rule, the max cord length in various wire gauges is:

<u>30A</u>	#6 AWG, 100ft. max	#8 AWG, 75ft max	#10 AWG, 40ft max
<u>20A</u>	#8 AWG, 100ft. max	#10 AWG, 75ft max	#12 AWG, 40ft max

Do I have to turn off Main circuit breaker in my utility panel?

It is not necessary to turn off the main circuit breaker or any branch circuit breaker in the homes utility panel when operating the generator with the EmerGen Switch. The double pole switches provide the necessary isolation. The generator power will not back-feed into the utility panel.

Internal circuit breakers on EmerGen Switch

The circuit breakers built into the EmerGen Switch are active only when the Line/Gen selector is in the GEN position. The 15A EmerGen circuits can be connected to either a 15A or 20A breaker in the utility panel. The 20A EmerGen circuits should be connected only to 20A circuits in the utility panel.

My utility panel has Ground and Neutral wires on same bar

If the utility panel has ground (bare wires) and neutral wires (white wires) connected to the same bar, then the EmerGen Switch Green and White wires can connect to the same bar. If the ground and neutral wires are on separate bars in the utility panel, then the EmerGen Green must connect to the ground bar and the EmerGen White must connect to the Neutral bar.

There is no movement on my watt meters

The watt meters on the EmerGen Switch operate only when utilizing generator power. These analog meters may be somewhat inaccurate in the lower 1/3 of their range. Accuracy increases at the higher end of the meter scale. There is a zero adjustment screw on the face of the meters. Make sure that the meter is properly zeroed with no generator power operating. The best way to test the meters is with appliances containing heating elements such as coffee pot, hair dryer, toaster or electric heater. These appliances will draw enough power to move the meters.

Terms and Conditions

Standard Warranty

Connecticut Electric, Inc. ("Connecticut Electric") warrants all products that it manufactures and guarantees protection against mechanical or electrical failure, due to manufacturing defects up to five (5) years from the date of purchase. UBI branded circuit breakers may have an additional 5-year warranty provided the product is registered electronically. Visit the Terms and Conditions section of the Connecticut Electric website: www.connecticut-electric.com for current warranty and registration information. Proof of the original purchase date is required for any eligible warranty coverage. In the event that proof of purchase is not able to be submitted, Connecticut Electric will use the product manufacturing code or serial number to determine the warranty period. Products where no proof of purchase is submitted, and the manufacturing date cannot be determined using the product manufacturing code or serial number will not be eligible for warranty coverage. If within such a period of time, any products that are installed properly, proven to be defective, and have not been altered or repaired become non-conforming, the products shall be repaired or replaced at the sole judgement of Connecticut Electric. Products that have been damaged while protecting your connected equipment are not considered defective and therefore are not covered under this warranty. This warranty does not cover items or devices connected to the covered product. Connecticut Electric will only provide warranty on Connecticut Electric manufactured products. If in the event Connecticut Electric has warranted a product and it becomes unavailable, Connecticut Electric will take full responsibility and credit the purchaser's account the original purchase price. This warranty applies only to the original retail purchaser or original end user and is non-transferable.

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This warranty gives you specific legal rights. You may also have other rights which vary from jurisdiction to jurisdiction. No action arising out of any claim may be brought more than one year after the cause of action has occurred, or as limited by law.

Return Policy

No product may be returned without first obtaining Connecticut Electric's written permission and a Return Authorization Number from Connecticut Electric. Returned products must be manufactured by or purchased from Connecticut Electric, and include the original packaging for the products. **Returned products must be securely packed to reach Connecticut Electric's Distribution Center without damage and labeled with the Return Authorization Number.** To receive a **Return Authorization Number**, please contact RGA at (800) 730-2557 EXT. 229 or email: warranty@connecticut-electric.com

All returned products can be shipped to the following address:

Connecticut Electric, Inc.
1819 West 38TH St.
Anderson, IN 46013

Credits will be issued for returned products if: (a) a manufacture defect is found or develops within one (1) year from the date of original purchase or manufacture from Connecticut Electric, (b) a product is shipped in error by Connecticut Electric, or (c) a product is ordered incorrectly by the purchaser which will be subject to a 20% restocking fee. Non-defective products cannot be returned for credit after ninety (90) days of purchase.

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Returns must originate from the original purchaser's account number. Returns will be credited at the original price paid as indicated on the Connecticut Electric purchase order if the original purchaser's account number, purchase order, and a statement for the reason of the return is provided. If the account number, purchase order, or reason for the return is not provided, then a credit cannot be issued immediately and will be based on the stock price in effect twelve (12) months prior to date of return authorization and will be subject to a 25% processing fee.

Special order and custom products are returnable and will be subject to a 20% restocking fee. Connecticut Electric shall bear the cost of returns resulting from Connecticut Electric's error if the order was made in writing. Connecticut Electric is not responsible for errors resulting from verbal or phone orders that are not later confirmed in writing by the purchaser. Information including the reason, method, and route of return is required by the purchaser for any products returned to Connecticut Electric. The information provided to Connecticut Electric will be held at the sole discretion Connecticut Electric. Changes or debits to original invoices will be considered in the calculation of any and all credits at the sole discretion of Connecticut Electric. Cost incurred by failure to follow Connecticut Electric's direction will be borne by the purchaser.

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