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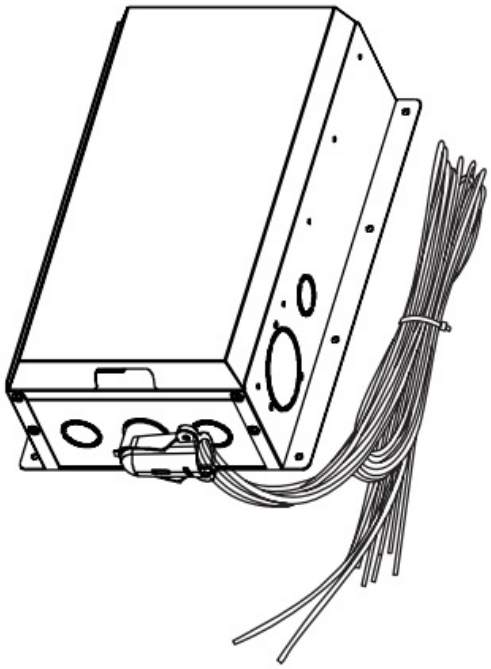
Nature

Nature s Generator 240V 30A Non Automatic Power Transfer Switch



Important Safety Instructions

Safety Instructions

1. Read these instructions.
2. Keep this user manual in a safe and accessible place.
3. Take note of all warnings to avoid injury or damage.
4. Follow all instructions.
5. The safety instructions provided herein are for illustrative purposes that include but are not limited to those listed in this manual. Actual operation shall comply with all applicable safety standards.
6. Always operate or store the equipment in the conditions specified in this manual.The installation and ambient conditions must comply with the regulations in the relevant national and local standards.
7. Avoid unauthorized disassembly, equipment replacement, or modification of software codes. 1.1.8 Nature’s Generator shall not be liable for the equipment damages, personal injury, property loss or other damages resulting from the following circumstances:

- Force majeure events such as earthquakes, fires, storms, floods, or mudslides.
- Damages caused by improper handling and installation.
- Damages resulting from inadequate storage conditions as specified in the manual.

- Hardware or data damage caused by customer negligence, improper operation, or intentional actions.
- System damage caused by third parties or customers.
- Adjustments, changes, or removal of labels in violation of this manual.

This product may only be used indoors and that no outdoor use in allowed under any conditions.

General Requirements

- Do not install, use or maintain this equipment near water.
- Do not install, use and maintain this equipment in adverse weather conditions such as lightning, rain, storm, snow and earthquake.
- Keep this equipment away from heat sources or high temperatures or direct sunlight.
- Do not insert foreign objects into or block any ventilation openings.
- Always turn off the power source before starting any electrical work.
- Allow a minimum 18 inch clearance from all sides of the equipment for proper air ventilation to dissipate heat.
- Do not use near flammable gases or fumes or other equipment that produce a large amount of heat.
- Do not store this equipment with flammable or explosive materials.
- Do not place the equipment on an unstable or inclined surface.
- Use the equipment for its intended purpose and avoid stacking objects on top of it during storage or use.
- Keep the system out of the reach of children and pets.
- Only use attachments/accessories approved by the manufacturer.
- Regularly inspect the equipment and its accessories for damage or deterioration.
- Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, has been dropped or does not operate normally.
- The equipment should not be exposed to dripping or splashing, and no objects filled with liquids, such as drinking glasses or vases, should be placed on the equipment.

- The transportation, wiring, installation and maintenance shall comply with all applicable laws, regulations and standards.
- Do not make changes or modifications to the equipment's structure, installation sequence, etc.
- Position the system on the flat surface and firmly secure it to a wall or other solid objects.
- After installing the equipment, remove the idle package materials from the site such as cartons, foam, plastic, nylon ties, etc.

Warning

1. The power inlet is for inlet use only. Not for use as an outlet.
2. FOR CONNECTION OF A SEPARATELY DERIVED (BONDED NEUTRAL) SYSTEM ONLY.
3. CONNECTIONS TO THE INLETS SHALL BE MADE BY QUALIFIED PERSONNEL ONLY.
4. FOR USE IN A WEATHER-PROTECTED AREA ONLY.
5. DANGER – Risk of electric shock – Do not connect or disconnect the power inlet when energized. 1.3.6 Plug connection should be in the following order: equipment grounding conductor connectors, grounded circuit conductor connectors, and ungrounded conductor connectors. Disconnection should be in the reverse order.
6. Verify the condition of power source prior to manually transferring. Manual operation may result in out-of-phase transfer when both sources are energized.
7. THE POWER TRANSFER KIT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN COMPLIANCE WITH ALL APPLICABLE ELECTRICAL CODES!
8. When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

Caution

Manual Transfer Switch – This device will not automatically transfer to an alternative source. 1.4.2 Improper installation of this transfer kit may cause damage or injury by

electrocution or fire. Please do not connect the appliances that exceed the capacity of this transfer kit. If the transfer switch is connected to AFCI or GFCI branch breakers, the AFCI or GFCI protection will be lost when the rocker switch in the transfer switch is in the GEN position.

Storage Instruction

1. Make sure the place where to store the system is well ventilated and spacious.
2. Do not store the system in flammable or explosive environments.
3. Keep the system out of the reach of children and pets.
4. Do not stack anything on top of the equipment during storage.
5. Avoid exposing the equipment to rain, humidity or direct sunlight.
6. Store the product in the conditions described in this manual.

INSTRUCTIONS PERTAINING TO RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS IMPORTANT SAFETY INSTRUCTIONS

WARNING – When using this product, basic precautions should always be followed, including the following:

- Read all the instructions before using the product.
- To reduce the risk of injury, close supervision is necessary when the product is used near children.
- Do not put fingers or hands into the product.
- Use of an attachment not recommended or sold by manufacturer may result in a risk of fire, electric shock, or injury to persons.
- To reduce risk of damage to the electric plug and cord, pull the plug rather than the cord when disconnecting the cable.
- Do not operate the transfer switch with a damaged cord or plug, or a damaged output cable.
- Do not disassemble the transfer switch, take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or electric shock.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.

- The power transfer switch must be installed by a qualified electrician in compliance with all applicable electrical codes!
- Do not charge the Nature's Generator by wall through AC input port when using the power transfer switch. It might trigger protection.

SAVE THESE INSTRUCTIONS

WARNING: GROUNDING INSTRUCTIONS

1. When the local codes require, this product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.
2. WARNING – Improper connection of the equipment grounding conductor is able to result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the product is properly grounded.

Upgrade Circuit Breakers

- This product is supplied with 120V/15-amp and 240V/20-amp circuit breakers as default. All circuit breaker positions can accommodate 15- or 20-amp circuit breakers. The positions 1 and 2 (only these positions) can accommodate 30-amp circuit breakers. To remove a circuit breaker, remove the compartment cover, unscrew the terminal screw in the breaker to be removed, removed the wire, tilt the top of the circuit breaker towards right and lift up and out. Reverse the procedure to install another breaker.
- Use 30-amp circuit breakers in positions 1 and 2 and use 20-amp circuit breakers in all other positions. Rating of a transfer switch circuit breaker should not exceed the rating of the corresponding branch circuit breaker in the load center.

Install and Remove Switch Bridge

- The rocker switches in position 1 and position 2 have a bridge to connect each other. The bridge can be removed if you desire to use position 1 and 2 for 120V.
- This product includes 2 spare switch bridges. You can bridge the switches in position 3, 4, 5 and 6 if you desire to use any two adjacent switches for 240V.

Unpack your Power Transfer Switch

Power Transfer Switch

2.1 Power Transfer Switch

2.2 Inlet

2.3 Flexible Conduit

2.4 Cable Clamps

2.5 Power Cord:

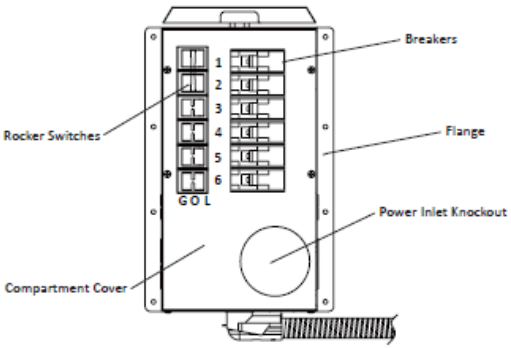
2.6 This User Manual

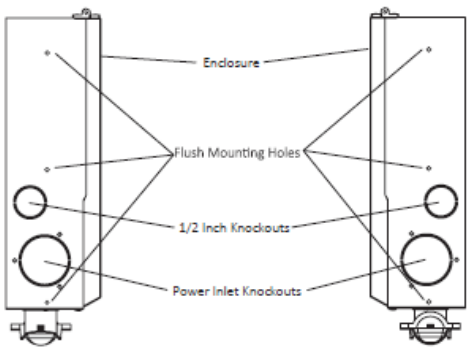
2.7 Mounting Template

2.8 Spare Switch Bridges x 2

Install Your Power Transfer Switch

Key Components of the Transfer Switch





- Rocker Switches: These switches allow you to select either G (generator) or L (utility) as the power source for the branch circuits that have been wired through the transfer switch. The O (off) position removes branch circuit from both utility and generator power.
- Breakers: Each transfer switch circuit has a 1-in interchangeable circuit breaker that protects the branch circuit when the rocker switch is in the G position. In the L position, each branch circuit is protected by the breaker in the load center.
- Power Inlet Knockouts: The locations to install the power inlet. Once the power inlet is installed, the power cord is plugged into the inlet.
- Compartment Cover: Remove to install power inlet.
- Flanges: Mount the power transfer switch on the wall.
- Enclosure: Powder coated steel.
- Flush Mounting Holes: Work with flush mounting kit (sold separately) to install the power transfer switch into the wall. 1/2 Inch Knockouts: For hardwire installation.

Installation Instructions

Get the tools ready.

- The following items (not included) will be needed for installation:
- Power drill
- Screwdriver
- Wire cutters/Stripper
- Anchors and screws
- Wire connectors

Install the power inlet

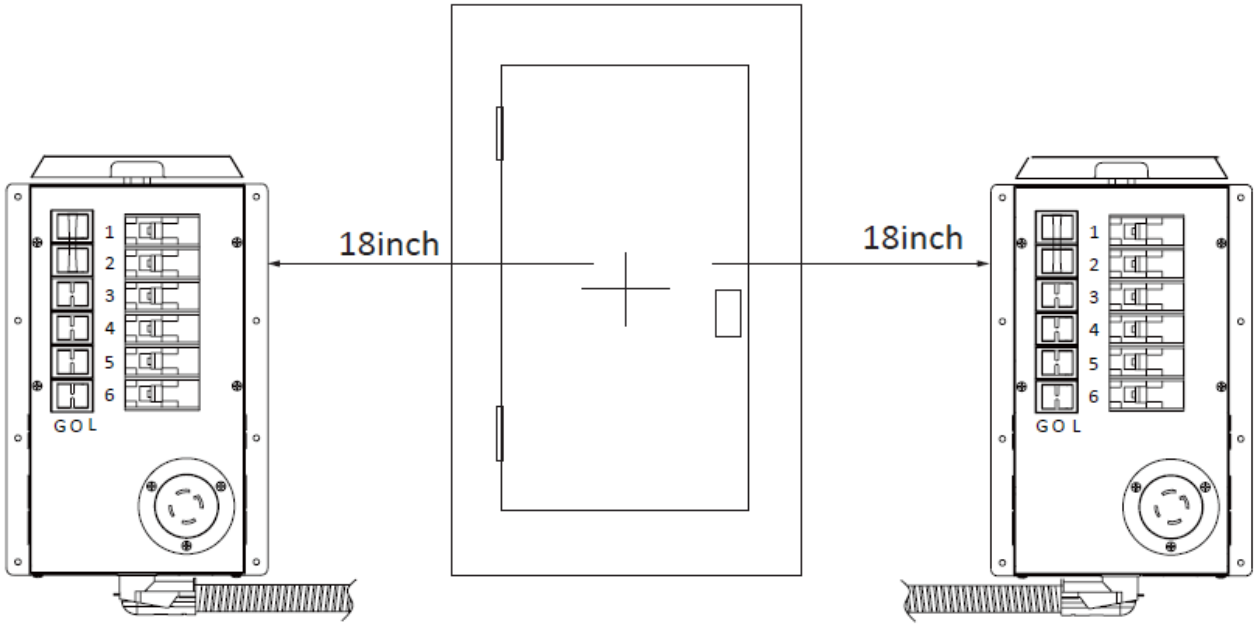
- There are three power inlet knockouts on the power transfer switch. Decide which knockout you are going to use to install the power inlet based on the locations of your load center and your power transfer switch and your preference for which direction you want your power cord to connect. Remove that knockout.
- Remove the six screws (4 screws on the top and 2 screws on the bottom) on the compartment cover and put the screws aside. Lift the compartment cover.
- Lift the compartment cover.

- Insert the power inlet through the power inlet knockout.
- Connect black wire (hot) in the power transfer switch to the one copper connector of the power inlet, connect red wire (hot) in the power transfer switch to the other copper connector of the power inlet, connect the white wire (neutral) in the power transfer switch to the silver connector of the power inlet and connect the green wire (ground) in the power transfer switch to the green connector of the power inlet.
- Secure the power inlet to power transfer switch with the included screws.
- Replace the compartment cover with the screws that were removed in step b.

Mount the power transfer switch.

- Locate your load center.
- Decide the appropriate location to install the power transfer switch. Make sure it is within 18-inch range from your load center as figure 1 shows.
- If you prefer to flush mount the power transfer switch, purchase the flush mount kit through www.naturesgenerator.com or 800-975-7909 before the installation.
- Mount the power transfer switch by securing the screws to the wall through the holes on the flanges.
- You may also use the included mounting template to cut a piece of plywood as the supporting board in between the power transfer switch and the wall for additional support.

Figure 1



Prepare the load center.

- Turn off the main circuit breaker in the load center to ensure your safety.
- Remove the cover of the load center.
- Remove an 1-1/4 inch knockout on the near side of the load center towards the power transfer switch.
- Cut the flexible conduit to the length you desire. Insert the wires from the power transfer switch though the flexible conduit and connect the other end of the flexible conduit to the knockout. Secure the flexible conduit with the cable clamps provided.
- Do not attempt to bend the flexible conduit beyond its structural capabilities.
- Warning: Verify the condition of power source prior to manually transferring. Manual operation may result in out-of-phase transfer when both sources are energized.
- Warning: Do not start the generator until all connectors are connected or made to be inaccessible. Any terminal may be energized when any cable is connected. De-energize cables at the generator prior to connecting or removing any connectors.
- Caution: This switch will not transfer if overcurrent device opens due to fault.
- Caution: Manual Transfer Switch – This device will not automatically transfer to an alternative source.
- Danger: Risk of electric shock.
- Danger: Any Terminal may be energized when any cable is connected. De-energize cables at the generator prior to opening the cover.
- Danger: Risk of electric shock. For use only for connection of a portable generator to the source terminals of a transfer switch, such that the inlets are only energized from the generator.

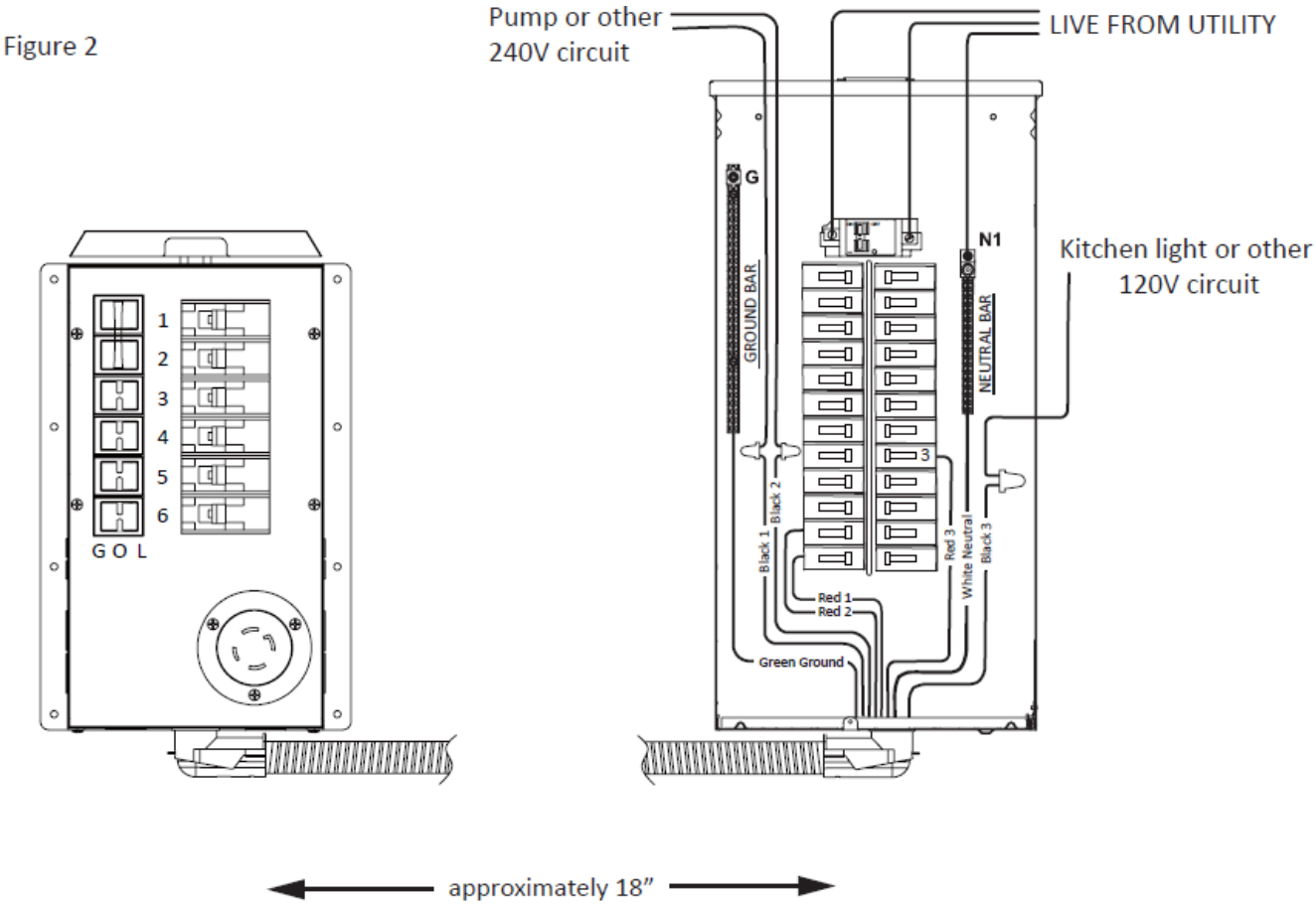
Installing 120V Circuits

Establish which lines will be the most critical to you in the time of a power outage. For example, let’s assume that switch 3 will be designated to supply power to the kitchen lights.

- Turn off the corresponding kitchen light circuit breaker. Undo the screw that secures the wire to the circuit breaker, then disconnect the wire from the circuit breaker.
- On the transfer switch, find the wires marked with the number 3, there should be one black and one red.

- As figure 2 shows, feed the red 3 wire into the kitchen light breaker. Strip approximately 5/8″ off from the end of the wire, connect the stripped red wire to the kitchen light circuit breaker and tighten the screw.
  Cut the black 3 wire to a similar length for aligning with the wire removed from the kitchen light circuit breaker in step a above. Strip approximately 5/8″ from the end of the black wire. Connect black 3 wire and the wire that was removed from the circuit breaker in step a by twisting a wire nut.
- This completes the installation of the transfer switch for backup power to your kitchen light.
- Repeat steps a-e for each of the remaining circuit.

Figure 2



Installing 240V Circuits

Establish which 240V lines will be the most critical to you in the time of a power outage. For example, let's assume that switch 1 and switch 2 will be designated to supply power to the pump.

- Turn off the corresponding pump circuit breakers. Undo the screws that secure the wires to the circuit breakers. Then disconnect the wires from the circuit breakers.

- On the transfer switch, find the wires marked with the number 1 and number 2, Each number shall have one black wire and one red wire.
- As figure 2 shows, feed both red wires into the pump breakers. Strip approximately 5/8″ off from the end of the wire, connect the stripped red wire to the pump circuit breaker and tighten the screws.
- Cut both black wires to a similar length for aligning with the wires removed from the pump circuit breaker in step a above. Strip approximately 5/8″ from the end of the black wires. Connect black wires and the wires that were removed from the circuit breakers in step 1 by twisting wire nuts.
- This completes the installation of the transfer switch for backup on your pump. Repeat steps a-e for each of the remaining circuits.

Completing the Installation

When you have wired all the load circuits in the transfer switch, only the white neutral wire and the green ground wire remain.

- Insert the white neutral wire into an unused opening in the neutral bar in the load center and tighten the screw (Figure 2).
- Insert the green ground wire into an unused opening in the ground bar, if existing, and tighten the screw. If no ground bar exists, insert the green wire into an unused hole in the neutral bar and tighten the screw.
- Replace the cover to the load center.
- Fill in the chart on the transfer switch to identify your emergency circuits and corresponding circuit numbers in the load center.
- Return all load center branch circuits and main breakers to the “ON” position.
- Move all rocker switches on the transfer switch to the “L” position. Installation is now complete.

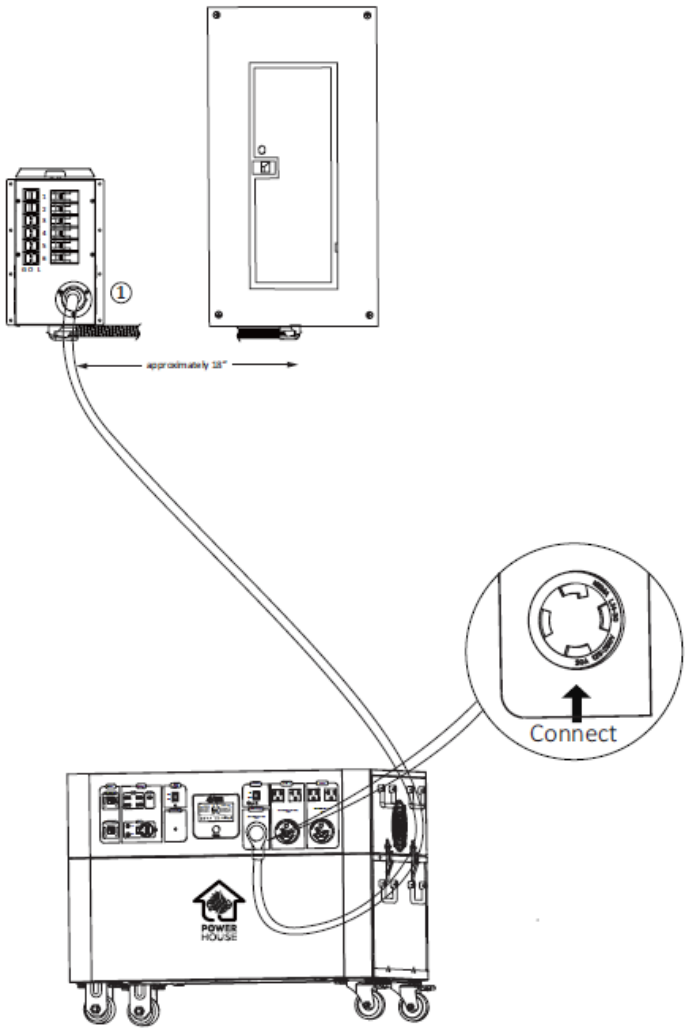
Connect Your Power Transfer Switch to the Generator

Once the Power Transfer Switch has been successfully installed, you can now connect your Power Transfer Switch to your Generator by using the included power cord. The steps below are using Nature’s Generator Powerhouse as an example.

- Fit the female connector of the included power cord into the power inlet of your Power

Transfer Switch. Turn the connector clockwise to secure the connection.

- Insert the male connector of the included power cord into the AC outlet on the generator.

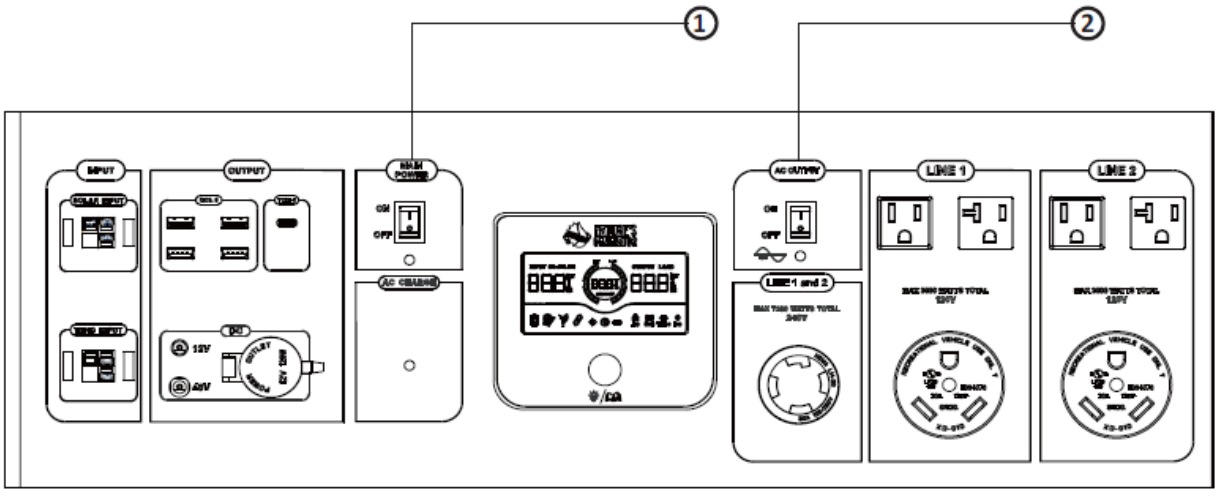


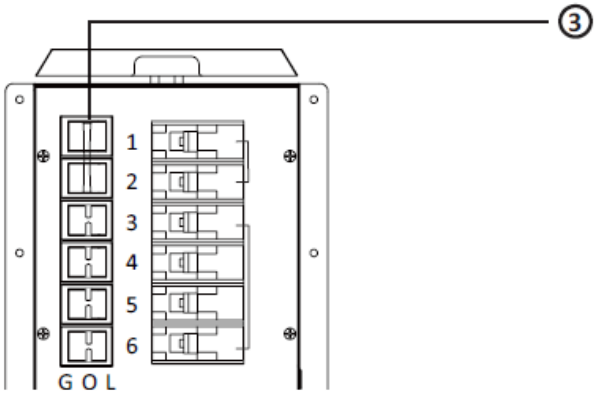
Use Your Power Transfer Switch

Once you've connected the Power Transfer Switch to the Nature's Generator Powerhouse, now when there is no utility power, you are still able to power your most important electrical items.

1. When you experience power loss simply follow these steps to continue powering your items:
    - Turn the Nature's Generator Powerhouse Main Power Switch to ON (The LCD screen will turn on).

- Turn the Nature’s Generator Powerhouse AC Switch to ON (The AC output light will turn green).
- Select the rocker switches of the circuits that you want your Nature’s Generator Powerhouse to power and move their positions from L to G. Rocker switches will light up and are ready to use.
- Make sure the breakers in Power Transfer Switch are in ON position. You are now ready to go!





2. When your power is restored:
    - Move the position of the rocker switches from G to L.
    - Turn the Nature’s Generator AC Switch to OFF (The AC output light will turn off).
    - Turn the Nature’s Generator Main Power Switch to OFF (The LCD screen will turn off).

Specifications

- Power Capacity: 7,200 watts
- Number of Circuits: circuits
- Voltage: 120 volts or 240 volts (split phase)

- Conduit Length: 18 inches
- Conduit Diameter: 1 inch
- Dimensions: 91/4 inch x 133/8 inch x 41/8 inch (235 mm x 340 mm x 103 mm) W x D x H
- Weight: 10.5 lbs (4.8 kg)

Notice

Nature’s Generator products, services, and features are sublect to the agreed-upon terms and conditions during purchase. Please note that some products, services, or features described in this manual may not be available under your purchase contract. Unless otherwise specified in the contract, Nature’s Generator makes no representations or warranties of any kind, express or implied, with respect to the contents of this manual.

The contents of this manual are subject to change without notice. Please get the latest version from: https://naturesgenerator.com/pages/help-center If you have any questions or concerns about this manual, please contact Nature’s Generator support for further assistance.

Limited Warranty

One Year Limited Warranty

Natures Generator Inc. warrants to you, the original purchaser of this new product, that the product shall be free of defects in the original manufacture of the material or workmanship for a period of one (1) year from the original date of your purchase of the product (“Warranty Period”). This product must be purchased from an authorized dealer and packaged with this warranty statement. This warranty does not cover refurbished product.

What does this Warranty Cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the product is determined to be defective by an authorized dealer, Natures Generator, Inc. will (at its sole option): (1) repair the product with new or rebuilt parts; or (2) replace the product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Nature’s Generator and are not returned to you. If service of products or parts are required after the Warranty Period

expires, you must pay all labor and parts charges. This warranty lasts as long as you own your product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the product.

How to Obtain Warranty Service?

Please call 1-800-975-7909 Monday through Friday, 9:00AM to 5:00PM PST. You will be provided with a Return Merchandise Authorization (RMA) number and return instructions.

Send product to:

Natures Generator Inc
3233 Mission Oaks Blvd. Ste N
Camarillo, CA 93012
Please include the RMA number prominently displayed on the shipping box and include your name, phone number and address with the product inside the box.

Where is the Warranty Valid?

This warranty is valid only to the original purchaser of the product in United States and Canada.

What our Warranty does not Cover?

This warranty does not cover:

- Cosmetic damage
- Damage due to acts of God, such as lightning strikes
- Accident
- Misuse
- Abuse
- Negligence
- Commercial use
- Modification of any part of the product
- Damage due to incorrect operation or maintenance
- Connection to an incorrect voltage supply
- Attempted repair by anyone other than a facility authorized by Natures Generator, Inc.

to service the product

- Products sold as is or with all faults
- Consumables, such as batteries
- Products where the factory applied serial number has been altered or removed

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS YOUR EXCLUSIVE REMEDY. NATURES GENERATOR INC. SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR THE BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO LOST DATA, LOSS OF USE OF YOUR PRODUCT, LOST BUSINESS OR LOST PROFITS. NATURES GENERATOR, INC. PRODUCTS MAKES NO OTHER EXPRESS WARRANTIES WITH RESPECT TO THE PRODUCT, ALL EXPRESS AND IMPLIED WARRANTIES FOR THE PRODUCT, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF AND CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE WARRANTY PERIOD SET FORTH ABOVE AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THE WARRANTY PERIOD. SOME STATES, PROVINCES AND JURISDICTIONS DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE.

Natures Generator Inc:

3233 Mission Oaks Blvd. Ste N

Camarillo, CA 93012

For customer service please call 1-800-975-7909

Visit NaturesGenerator.com for More Information

FAQ

Where shall I install the Power Transfer Switch?

The conduit is approximately 18 inch long with the clamps. It is recommended to

install it in a close area to your load center.

Can I use the Power Transfer Switch and Nature’s Generator to back up 240V?

Yes. It works on both 120V and 240V

What happens when the utility power is restored?

When your utility power is restored, other lights and appliances on the circuits that are not connected to Power Transfer Switch will turn on. To transfer the circuits on the generator to utility power, flip the rocker switches back to the L position and shut down your generator.

Will the surge damage my Nature’s Generator when the utility power is restored?

No. The circuits that are connected to Power Transfer Switch are isolated from the utility power. There is no danger of back feeding the utility power

What will I be able to power?

Power load and run time depend on the generator that connects the power transfer switch. Please refer to your generator's manual to understand the output wattage and capacity.

Can I use it off the grid like in cabin or RV?

Yes. If it is always powered by your generator, keep the rocker switch on your Power Transfer Switch in G position.

Can the Power Transfer Switch recharge my Nature’s Generator Powerhouse?

No. The Power Transfer Switch cannot recharge your Nature’s Generator Powerhouse. Your Nature’s Generator Powerhouse must be recharged through standard AC outlet, Nature’s Generator Powerhouse Solar Panel or Nature’s Generator Powerhouse Wind Turbine

Can the Power Transfer Switch work with other Generators?

Yes. It works with other battery powered generators. It can work with fuel powered generator, but the inlet and the inlet box included in 50A model need to be installed outdoor for the safety.

Why is my load center triggered to shutdown when I charge my Nature’s Generator Powerhouse?

It is possibly because you are charging your Nature’s Generator Powerhouse while using the power transfer switch. Do not charge Nature’s Generator Powerhouse from the load center that the power transfer switch backs up.

Documents / Resources

	Nature s Generator 240V 30A Non Automatic Power Transfer Switch [pdf] User Manual NGPHPTK 30A 6 Circuits, 240V 30A Non Automatic Power Transfer Switch, 240V 30A, Non Automatic Power Transfer Switch, Automatic Power Transfer Switch, Power Transfer Switch, Transfer Switch

References

- User Manual

NATURE S GENERATOR

240V 30A, 240V 30A Non Automatic Power Transfer Switch, Automatic Power Transfer Switch, NATURE S GENERATOR, NGPHPTK 30A 6 Circuits, Non Automatic Power Transfer Switch, Power Transfer Switch, Transfer Switch

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