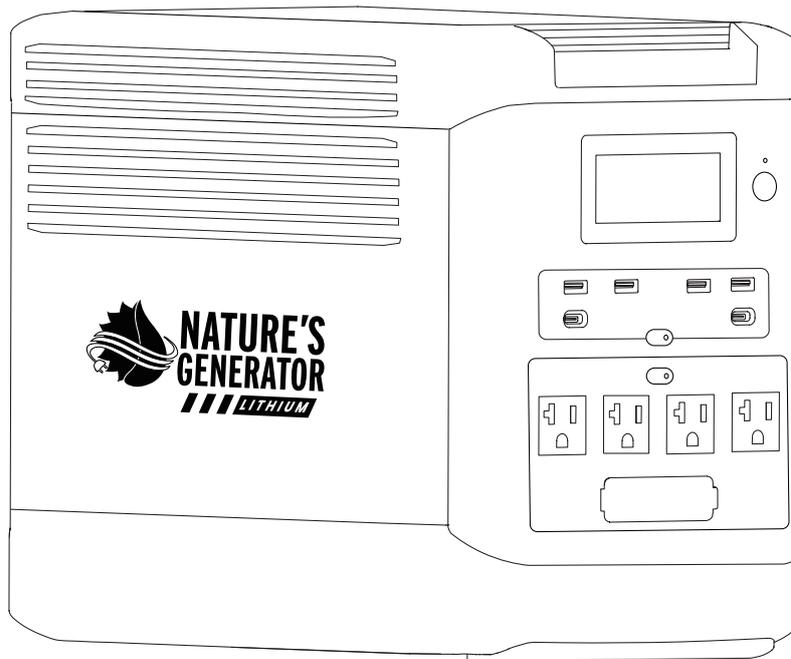


# Nature's Generator Lithium 1800 User Manual



# Nature's Generator Lithium 1800

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## ***Important Safety Instructions***

1. Read these instructions.
2. Keep this user manual in a safe and accessible place.
3. Take note of all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Do not block any ventilation openings.
7. Do not use near flammable gases or fumes or other apparatus that produce a large amount of heat.
8. Only use attachments/accessories approved by the manufacturer.
9. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as 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.
10. 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.

### ***Warning***

#### ***Electric Shock Hazard***

Keep away from children. Nature's Generator Lithium 1800 generates the same potentially lethal AC power as a normal household wall outlet. To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. Do not insert foreign objects into the AC outlets or the ventilation holes.

#### ***Explosion Hazard***

Do not burn or incinerate this item. This item may explode, causing property damage or personal injury. Do not use near flammable gases or fumes or other apparatus that produces large amounts of heat.

#### ***Lightning Hazard***

For added protection for your device during a lightning storm, unplug it from the power outlet and disconnect the cables. This helps to prevent property damage and personal injury from lightning and power line surges.

#### ***Energy and Burn Hazard***

Nature's Generator Lithium 1800 has lithium iron phosphate batteries, which can present a risk of burn or fire hazard from high current because of short-circuit.

#### ***Replacement Parts***

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***

### ***Damage Requiring Service***

Stop using the Nature's Generator Lithium 1800 and refer servicing to qualified service personnel under the following conditions:

- If liquid has been spilled or objects have fallen into your Nature's Generator Lithium 1800.
- If your Nature's Generator Lithium 1800 has been exposed to rain or water.
- If your Nature's Generator Lithium 1800 has been dropped or damaged in any way.
- When your Nature's Generator Lithium 1800 exhibits a distinct change in performance.

### ***Cold Weather***

Cold temperatures can impact Nature's Generator Lithium 1800 performance. If you are in area that will be consistently below freezing, we recommend keeping your Nature's Generator Lithium 1800 in an insulated location.

### ***Recycling and Disposal***

Your Nature's Generator Lithium 1800 may contain materials that are regulated for environmental reasons. Your Nature's Generator Lithium 1800 also contains materials that can be recycled and reused. To help protect the environment, contact your local authorities for information about disposal or recycling and about finding a recycler in your area before you dispose of your Nature's Generator Lithium 1800.

### ***Safety Check***

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your Nature's Generator Lithium 1800 is in correct operating condition.

### ***Servicing***

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

### ***Metal Tools***

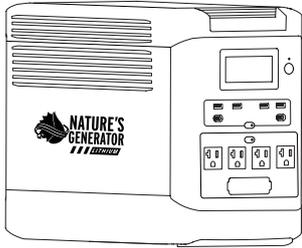
Be very cautious when working with metal tools on or around Nature's Generator Lithium 1800. The potential risk exists by dropping a tool to spark or short circuit batteries or other electrical parts and could cause an explosion.

## ***Introduction***

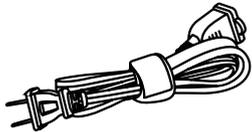
Congratulations on your new Nature's Generator Lithium 1800, a state-of-art energy storage system that provides reliable power for emergencies, off grid living, or wherever power is needed.

## ***Unpacking Your Nature's Generator Lithium 1800***

### **1. Nature's Generator Lithium 1800**



### **2. AC Power Cord**

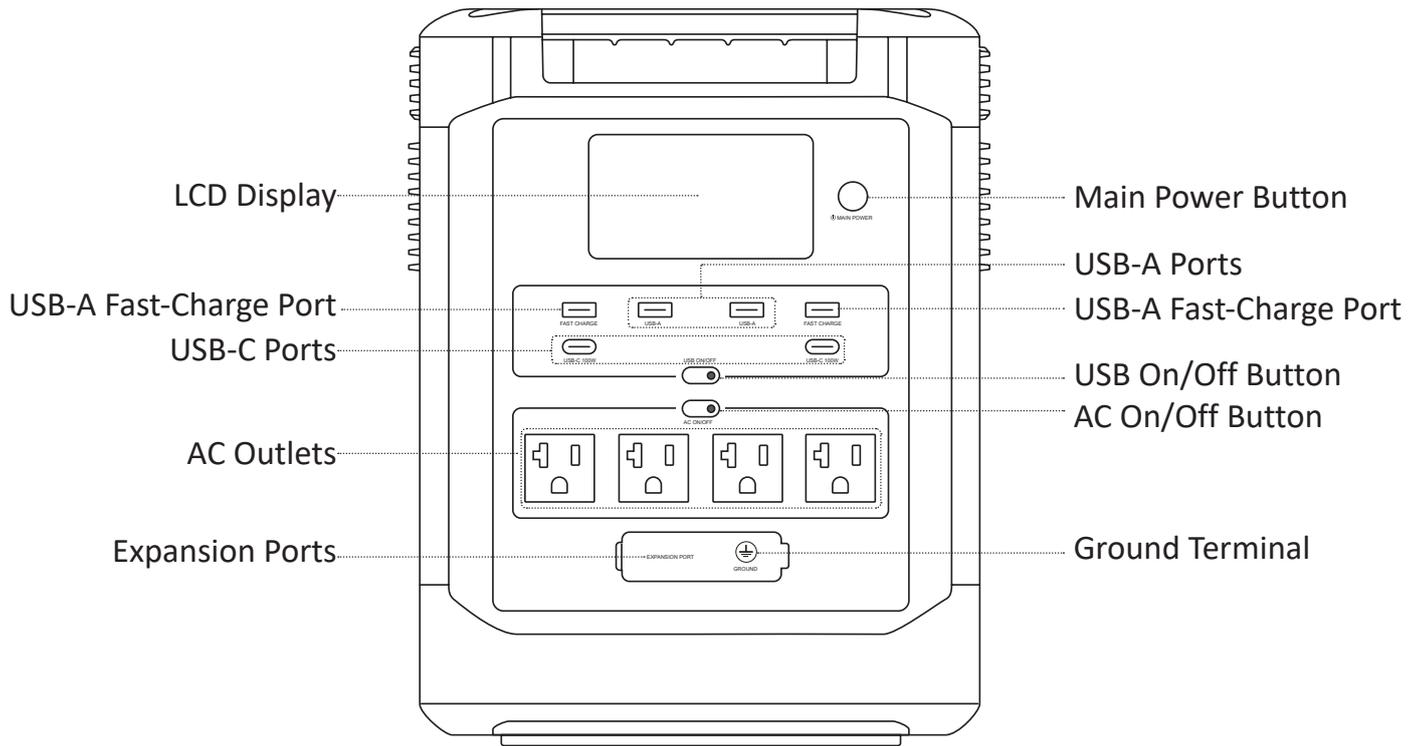


### **3. This User Guide**



## Get to Know Your Nature's Generator Lithium 1800

### Nature's Generator Lithium 1800 Front View



**LCD Display:** Shows the information of the system.

**Main Power Button:** Turns on or off the main power of Nature's Generator Lithium 1800.

**USB-A Ports:** Provide 5Vdc 2.4A 12W output.

**USB-A Fast-Charge Ports:** Provide 20Vdc 3A 60W output.

**USB-C Ports:** Provide 20Vdc 5A 100W output.

**USB On/Off Button:** Turns on or off the USB output.

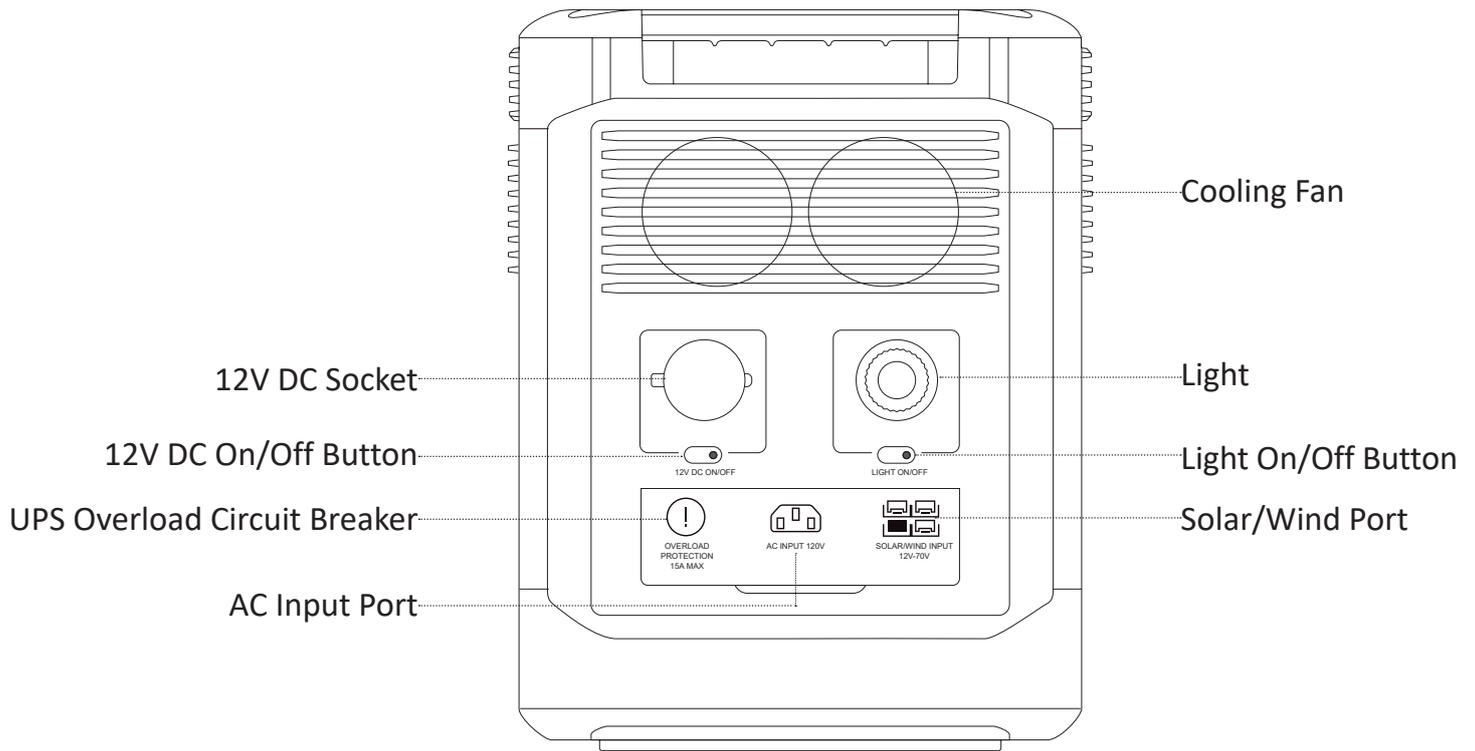
**AC On/Off Button:** Turns on or off the AC outlets.

**AC Outlets:** Provide 120Vac pure sine wave output.

**Expansion Ports:** Connect another Nature's Generator Lithium 1800 by the Link Cable (sold separately) to extend the run time or the Combiner (sold separately) to expand the power.

**Ground Terminal:** For grounding connection.

## Nature's Generator Lithium 1800 Back View



**Cooling Fan:** Automatically turns on or off to control the internal temperature.

**12V DC Socket:** Provides 12Vdc 10A 120W output.

**12V DC On/Off Button:** Turns on or off the 12V DC output.

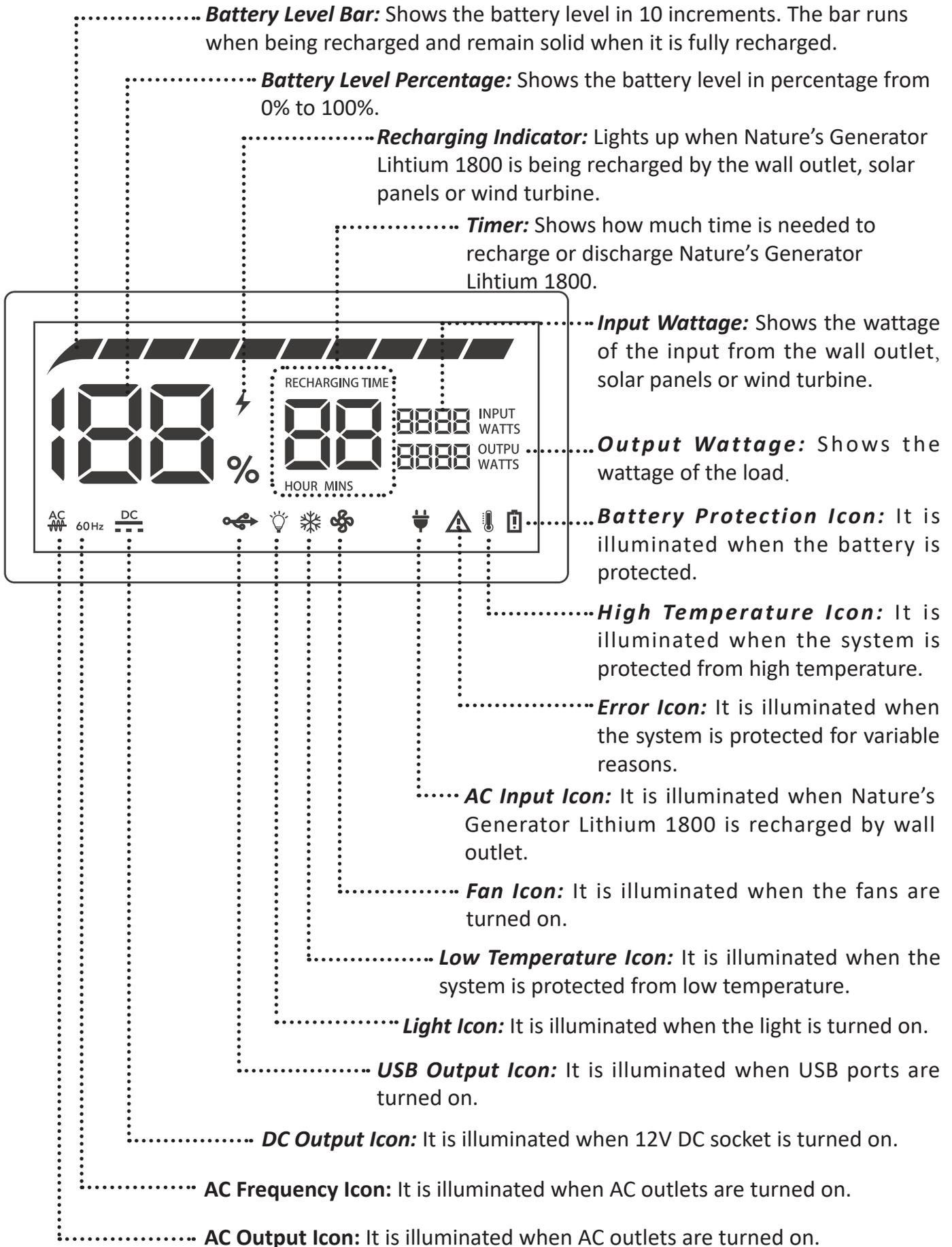
**Light:** Provides 100 lumen light or SOS strobe.

**Light On/Off Button:** Turns on or off the light.

**UPS Overload Circuit Breaker:** Automatically protects the system if the load exceeds 15A during UPS (Uninterrupted Power Supply) mode.

**AC Input Port:** Connects the wall outlet by using the included power cord.

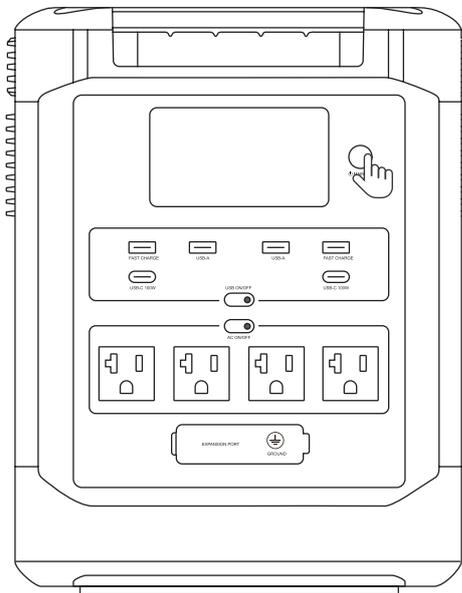
**Solar/Wind Port:** Connects up to 600W solar panels or up to 150W wind turbine.



## Using Your Nature's Generator Lithium 1800

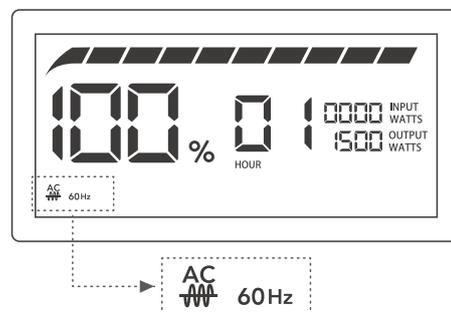
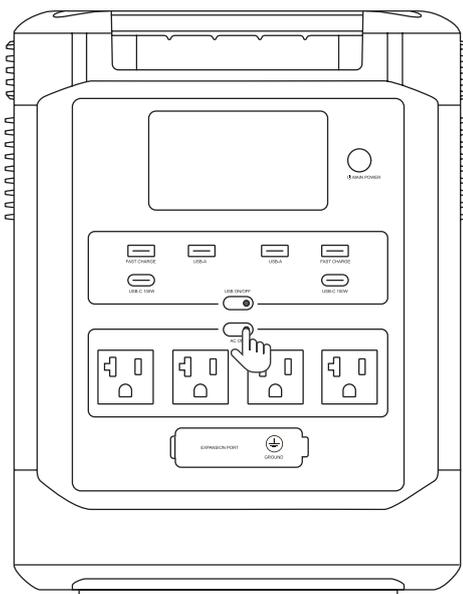
### How to Use Your Nature's Generator Lithium 1800

1. Press and hold the Main Power Button for 2 seconds to turn on your Nature's Generator Lithium 1800. The indicator above the Main Power Button will light up and the LCD display will show the system information.

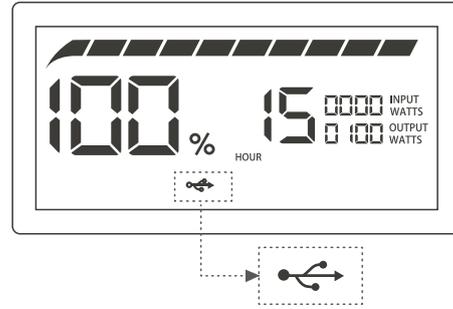
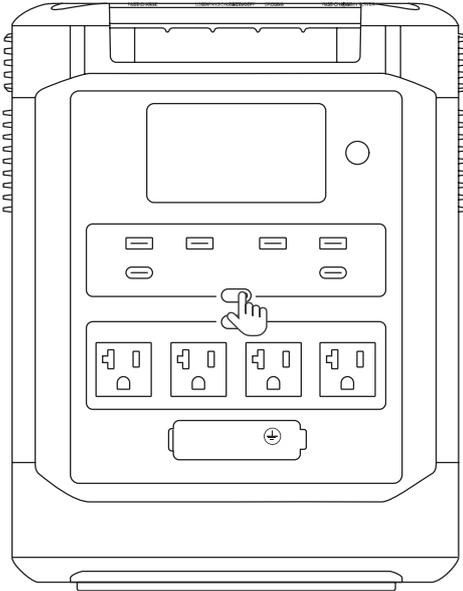


Press and hold for 2 seconds

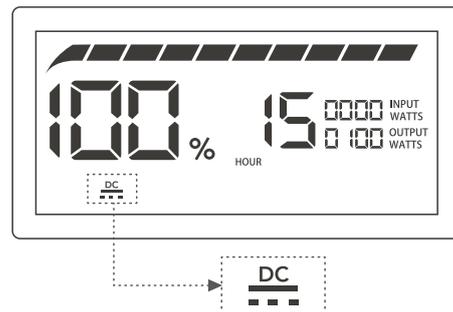
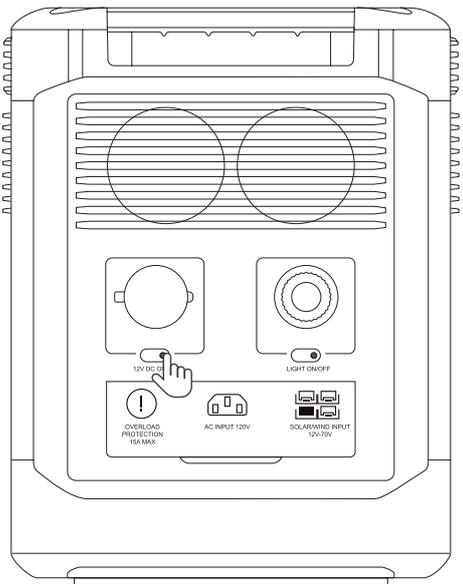
2. Press the AC On/Off Button to turn on the AC outlets. The indicator on the button will light up and the AC Output Icon and AC Frequency Icon will be illuminated. Plug in your AC devices, power up, and the LCD display will show the run time and the output wattage. Press the AC On/Off Button again to turn off the AC outlets.



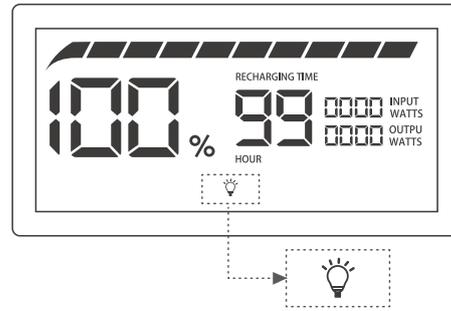
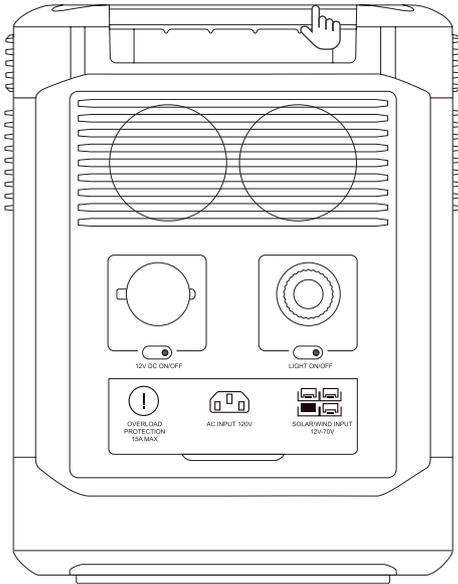
3. Press the USB On/Off Button to turn on the USB ports. The indicator on the button will light up and the USB Icon will be illuminated. Plug in your USB cables and the LCD display will show the run time and the output wattage if it exceeds 5W. Press the USB On/Off Button again to turn off the USB ports.



4. Press the 12V DC On/Off Button to turn on the 12V DC Socket. The indicator on the button will light up and the DC Output Icon will be illuminated. Plug in your devices, power up, and the LCD display will show the run time and the output wattage. Press the 12V DC On/Off Button again to turn off the 12V DC socket.



5. Press the Light On/Off Button to turn on the light. The indicator on the button will light up and the Light Icon will be illuminated. Press the Light On/Off Button again to turn the light into SOS strobe. Press the Light On/Off Button one more time to turn off the light.

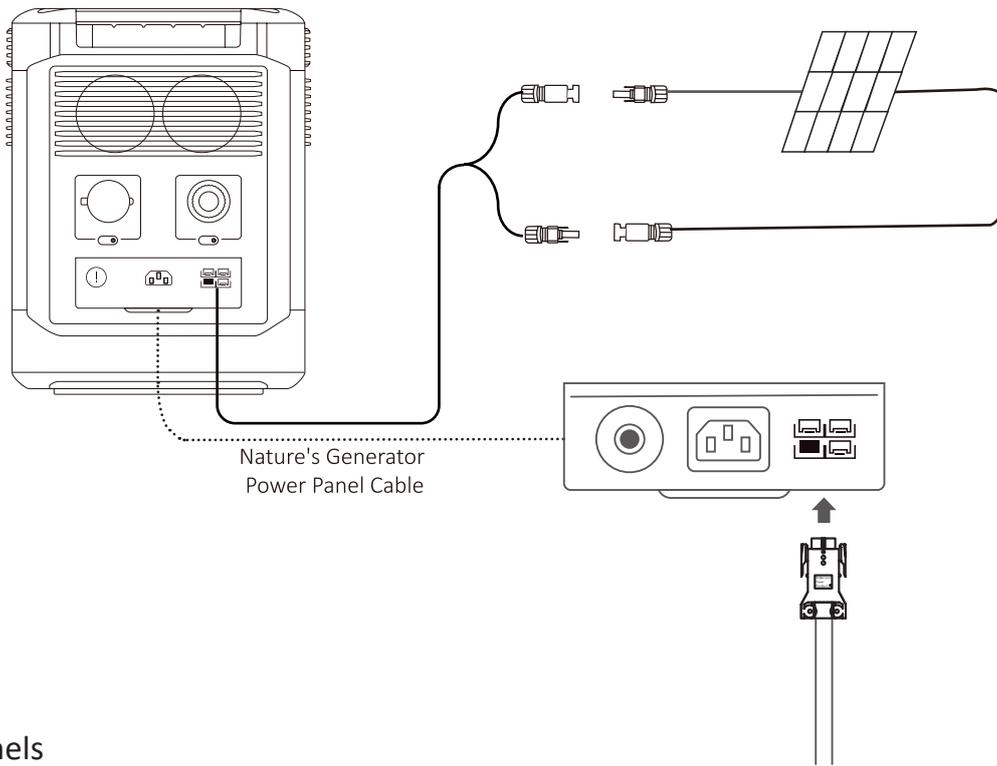


## How to Recharge Your Nature's Generator Lithium 1800

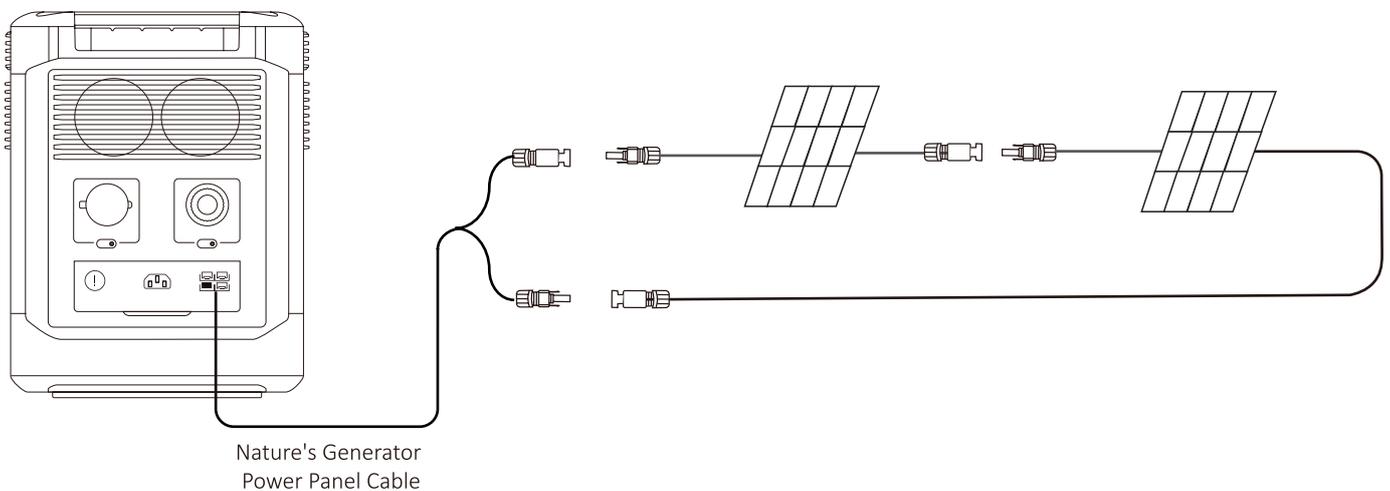
Recharging from Nature's Generator 100W Power Panels (sold separately):

1. Place your Nature's Generator 100W Power Panels where they will get as much direct sunlight as possible. While direct sunlight is always preferred, the power panels will also send a small amount of charge to your Powerhouse during hazy or overcast sky conditions.
2. Connect the Nature's Generator 100W Power Panels as the diagram below.
3. Insert solar panel plug into Solar/Wind Port of your Nature's Generator Lithium 1800. The LCD display will show the recharging time and the input wattage.

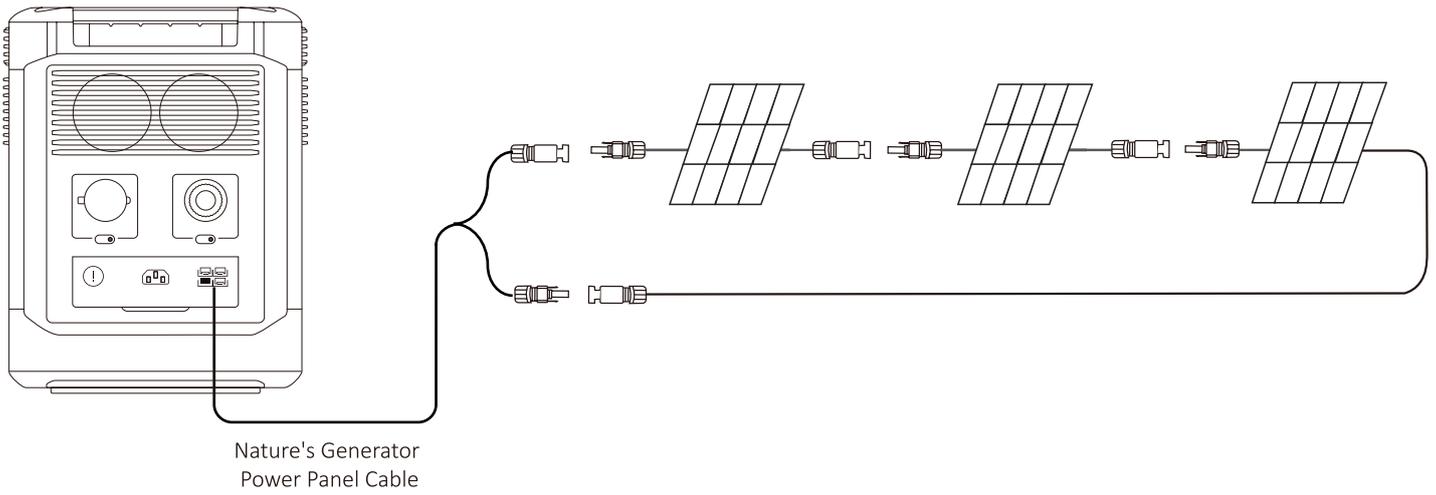
### One Power Panel



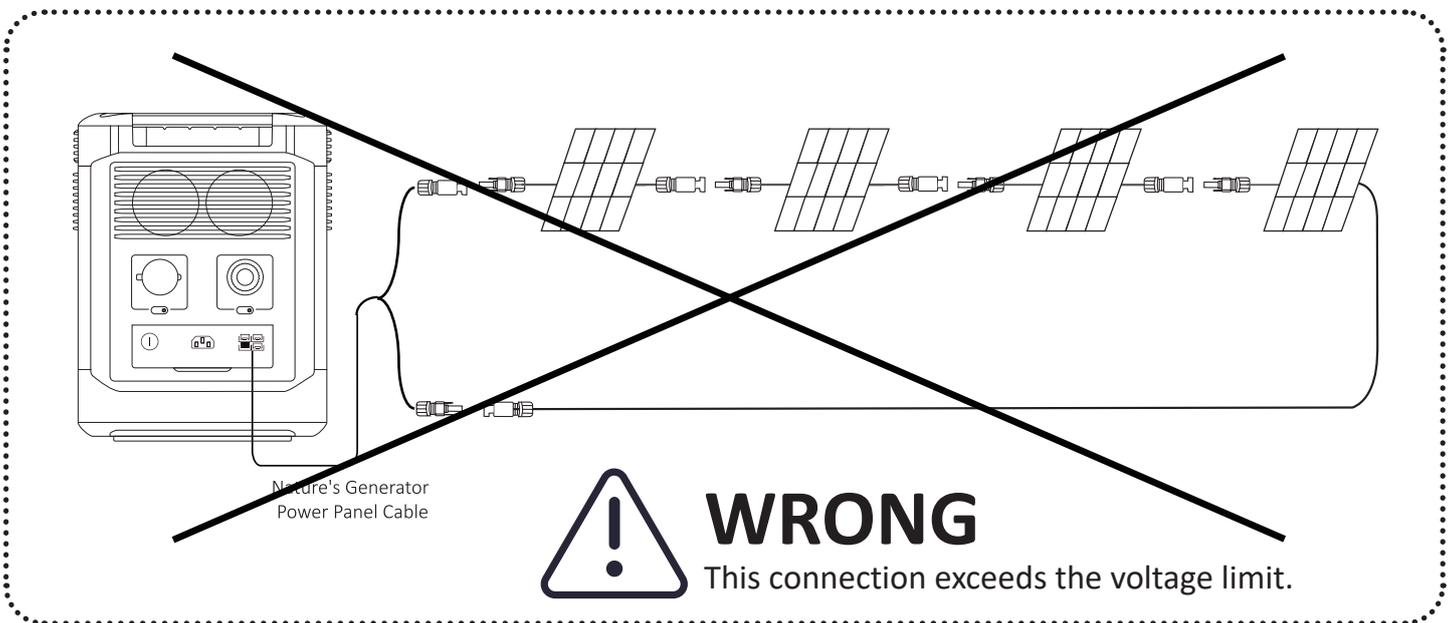
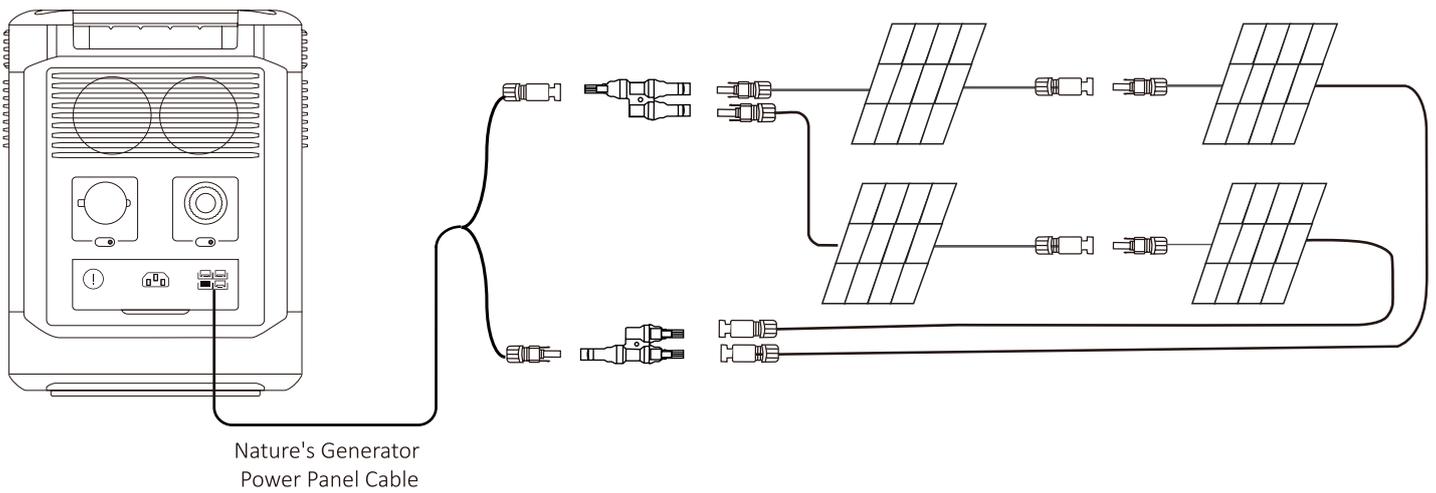
### Two Power Panels



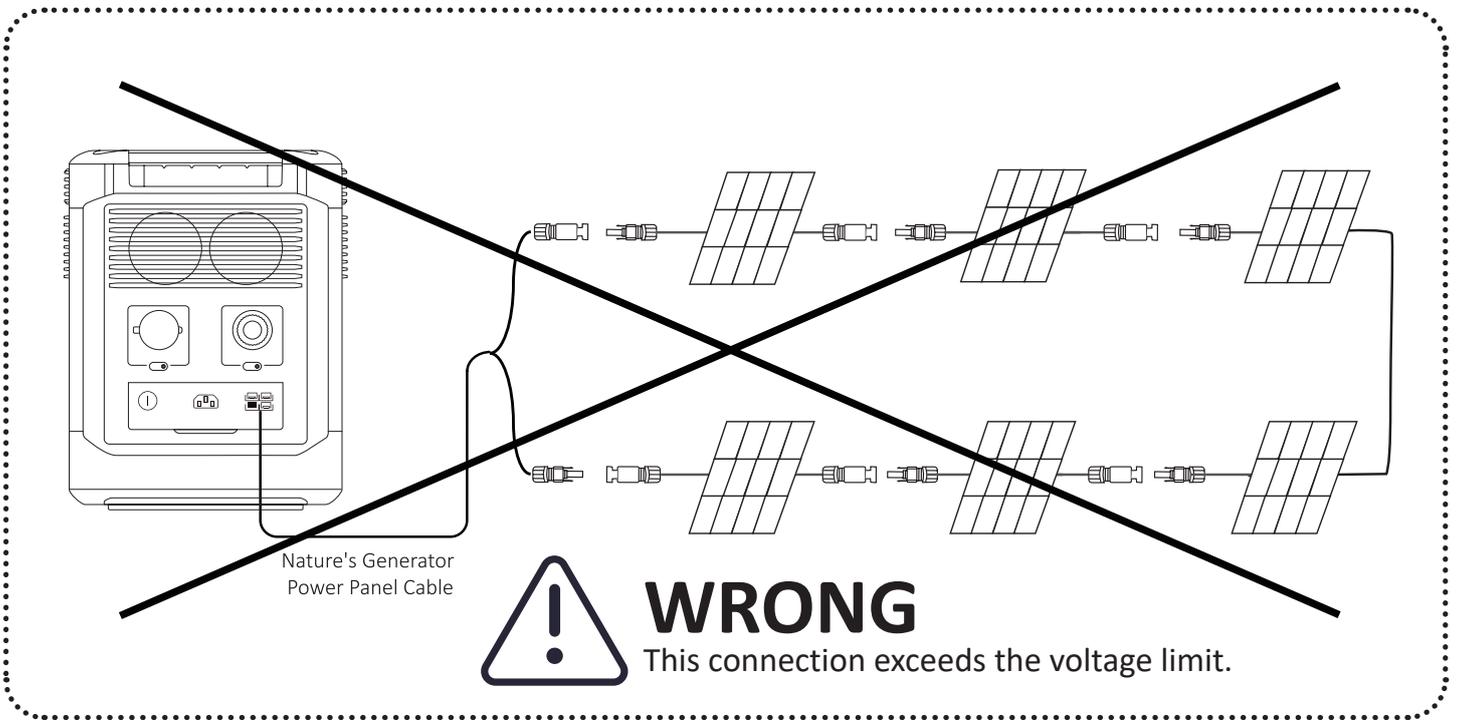
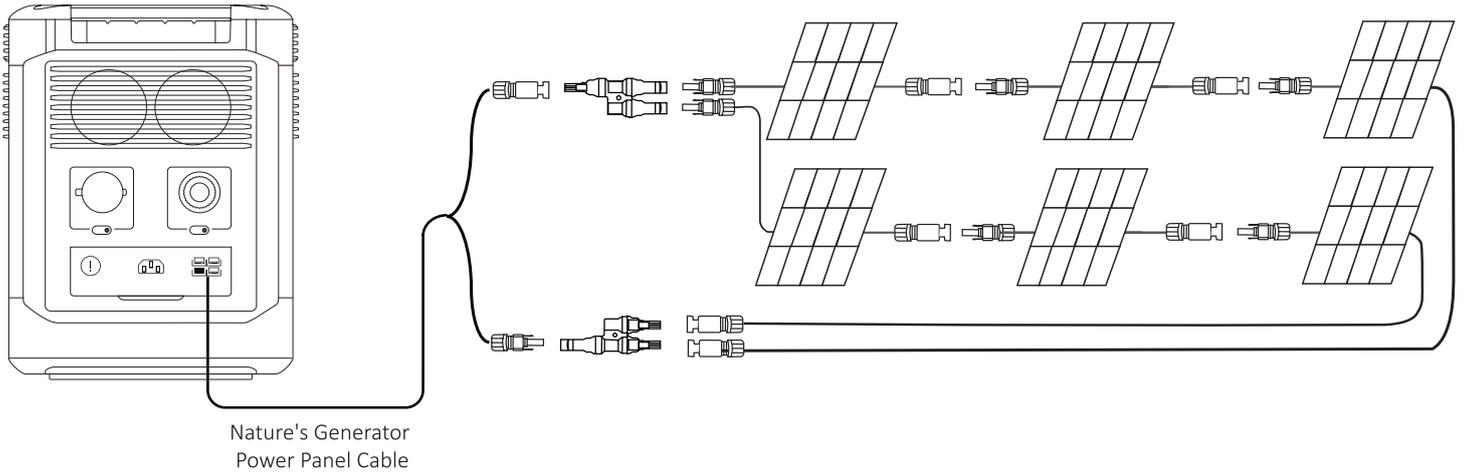
### Three Power Panels



### Four Power Panels

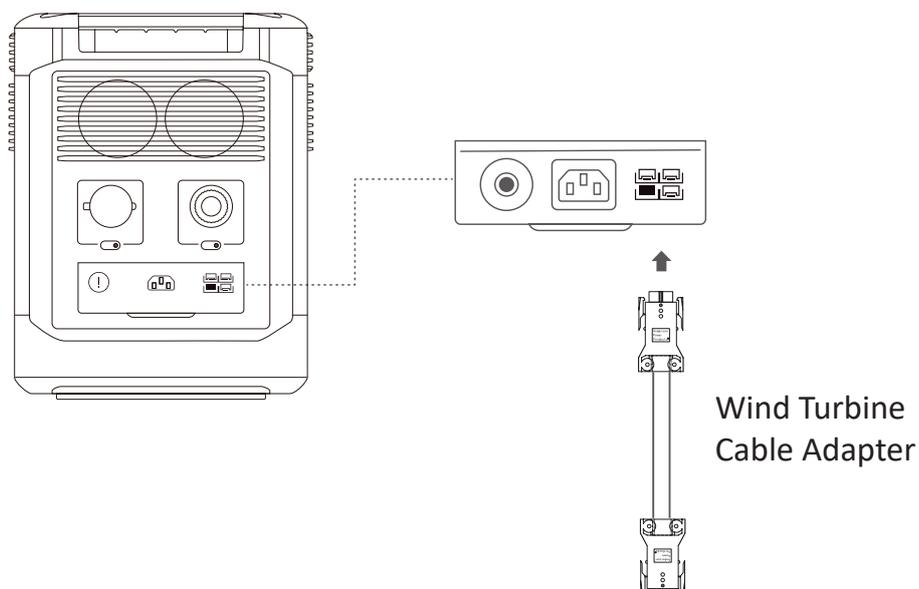


## Six Power Panels



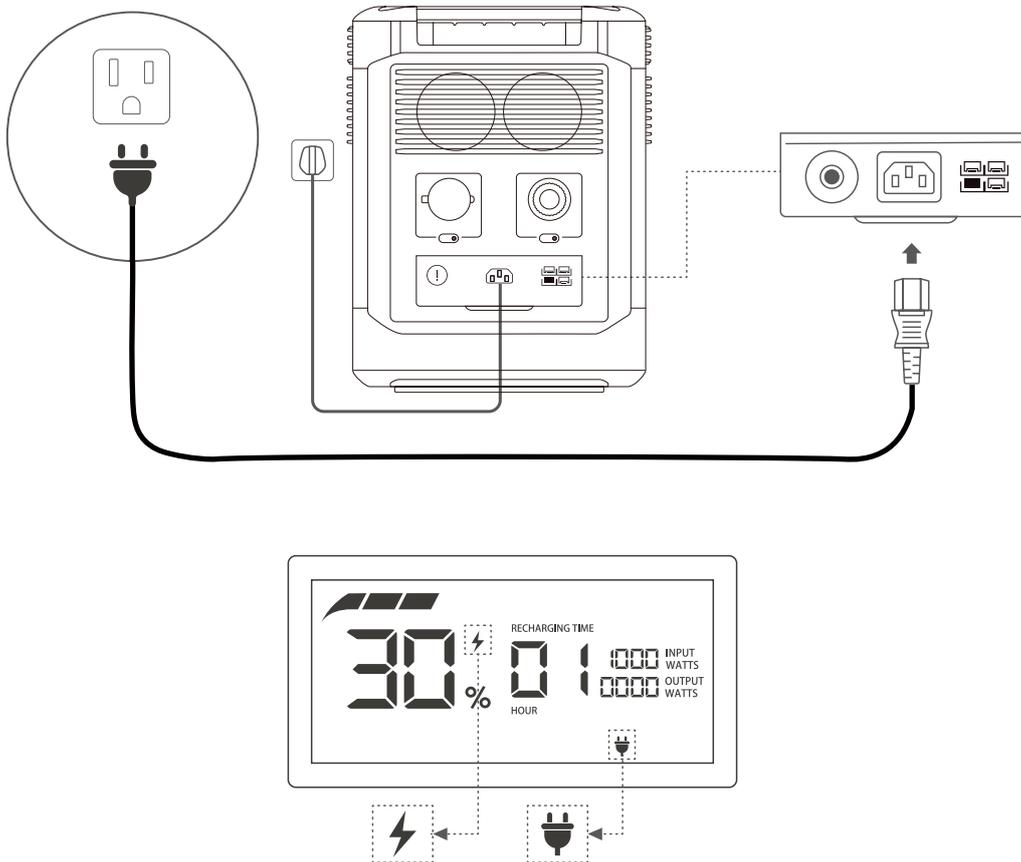
## Recharging from the Nature's Generator Wind Turbine (sold separately):

1. Place your Nature's Generator Wind Turbine where it will get sufficient wind.
2. Follow the instructions on the manual of Nature's Generator Wind Turbine to set up the wind turbine.
3. Connect the wind turbine cable to the wind turbine cable adapter (sold separately).
4. Connect the cable adapter into Solar/Wind port of your Nature's Generator Lithium 1800. You will know it is recharging when LCD display lights up, recharging indicator icon is illuminated, and battery bar starts running.



Recharging from the wall outlet.

1. Insert the power cord to the AC Input Port of the Nature's Generator Lithium 1800.
2. Plug the other end of the power cord into the wall outlet. The LCD display will show the recharging time and the input wattage.
3. Nature's Generator Lithium 1800 has built-in the intelligent fast charging technology that will prioritize to use the free energy from solar panels or wind turbine if they simultaneously charge Nature's Generator Lithium 1800 with the wall outlet.



### Uninterrupted Power Supply (UPS) Mode

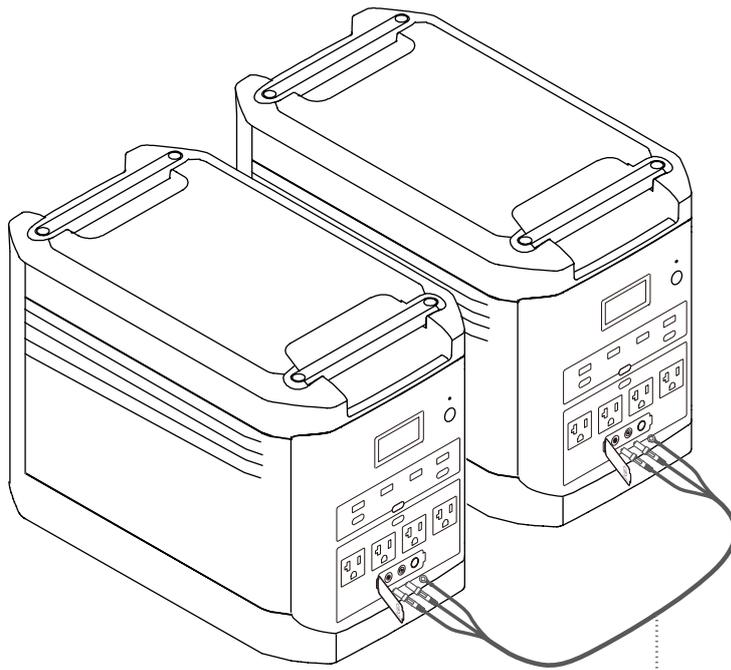
You can recharge your Nature's Generator Lithium 1800 and power your devices at the same time. By doing so, your Nature's Generator Lithium 1800 turns into Uninterrupted Power Supply (UPS) mode and your devices will receive power directly from the wall outlet. If the power goes out suddenly, your Nature's Generator Lithium 1800 will supply power to your connected AC devices within 10ms (milliseconds). Please check the specifications of your device for the required switching time.

## How to Expand Your Nature's Generator Lithium 1800

### Extend the run time:

You can extend the run time of your Nature's Generator Lithium 1800 by connecting to another Nature's Generator Lithium 1800 by the Nature's Generator Lithium 1800 Link Cable.

1. **IMPORTANT!** Please make sure the AC outlets are turned off!
2. Connect the red connector of Nature's Generator Lithium 1800 Link to the red connector of Nature's Generator Lithium 1800, Connect the black connector of Nature's Generator Lithium 1800 Link to the black connector of Nature's Generator Lithium 1800 and connect the green ground connector of Nature's Generator Lithium 1800 Link to the copper connector of Nature's Generator Lithium 1800.
3. Repeat the same steps on the other Nature's Generator Lithium 1800.
4. Press the AC On/Off Button to turn on the AC outlets of both Nature's Generator Lithium 1800s.
5. Plug in your AC devices to any outlets of either Nature's Generator Lithium 1800. It is recommended to use the Nature's Generator Lithium 1800 that has higher battery level at first. The run time is increased because the power consumption is shared between both Nature's Generator Lithium 1800s.

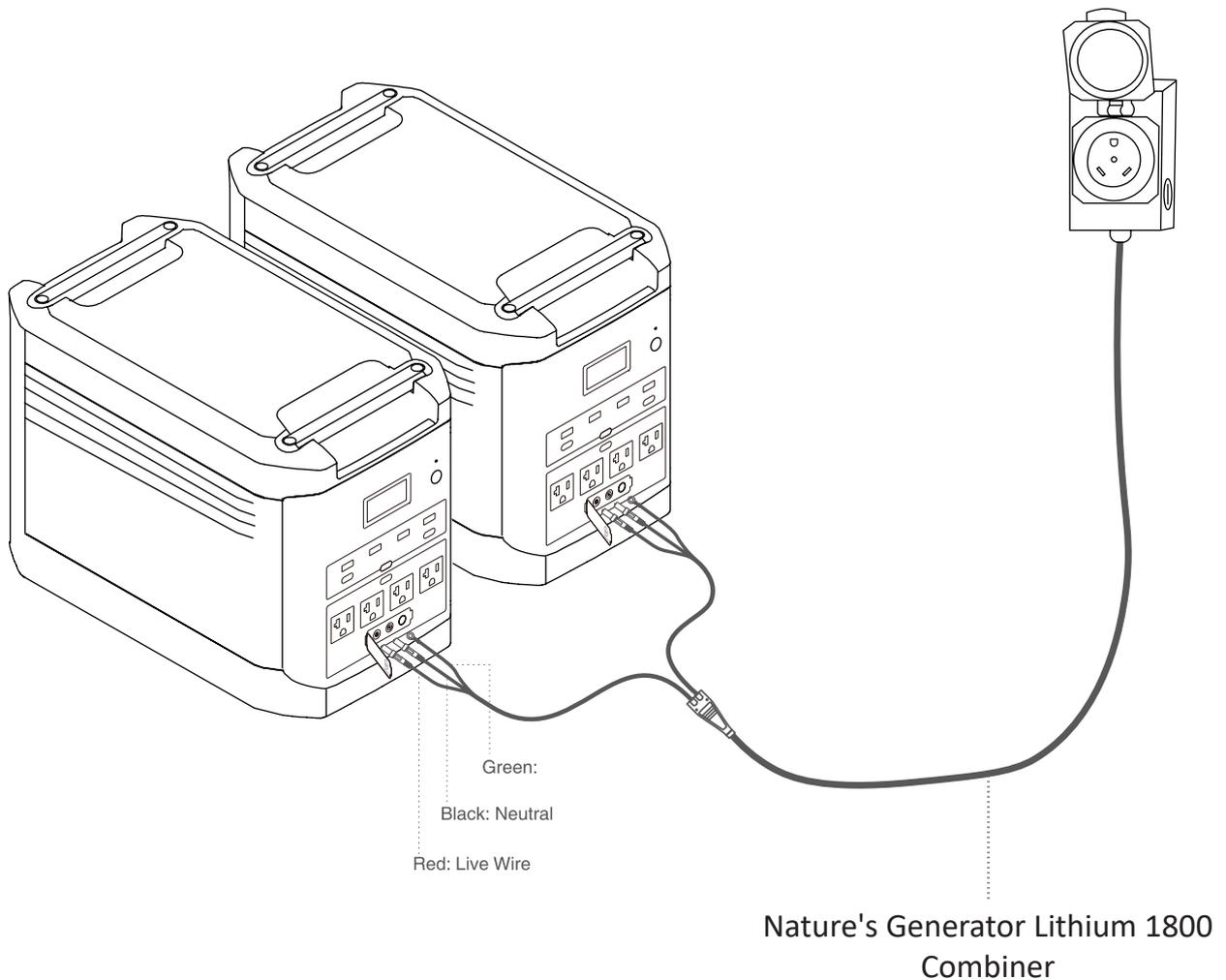


Nature's Generator Lithium 1800  
Link Cable

## Expand the Power:

You can expand the power from 1800W to 3600W by connecting to another Nature's Generator Lithium 1800 by the Nature's Generator Lithium 1800 Combiner.

1. **IMPORTANT!** Please make sure the AC outlets are turned off!
2. Connect the red connector of Nature's Generator Lithium 1800 Combiner to the red connector of Nature's Generator Lithium 1800, Connect the black connector of Nature's Generator Lithium 1800 Combiner to the black connector of Nature's Generator Lithium 1800 and connect the green ground connector of Nature's Generator Lithium 1800 Combiner to the copper connector of Nature's Generator Lithium 1800.
3. Repeat the same steps on the other Nature's Generator Lithium 1800.
4. Press the AC On/Off Button to turn on the AC outlets of both Nature's Generator Lithium 1800s.
5. Plug in your AC devices to the outlet on your Nature's Generator Lithium 1800 Combiner. You will receive 120V30A 3600W power from the combiner by combining the two Nature's Generator Lithium 1800s.



### ***How to Maintain and Store Your Nature's Generator Lithium 1800***

Turn off the main power and AC outlets when your Nature's Generator Lithium 1800 is not in use. Recharge your Nature's Generator Lithium 1800 once every six months and store it in a ventilated, cool and dry location. This keeps the battery healthy and prolongs its life. Failure to maintain Nature's Generator Lithium 1800 by these steps can result in battery damage which will void the product warranty.

Clean your Nature's Generator Lithium 1800 with a soft, lint-free cloth. If your Nature's Generator Lithium 1800 is very dirty, moisten a soft, lint-free cloth in a weak detergent solution, squeeze the excess moisture from the cloth, then wipe Nature's Generator Lithium 1800 with the cloth, followed by a clean dry cloth to wipe down you Nature's Generator Lithium 1800.

## ***Troubleshooting***

### ***My solar panels cannot recharge my Nature's Generator Lithium 1800.***

Please follow these steps.

1. If you are not using Nature's Generator 100W Power Panels, make sure the other solar panels have similar specifications.
2. Make sure the power panels are pointed directly towards the sun. The solar panels may produce little or no power if they are placed in the shade.
3. Check the cable connections on Nature's Generator 100W Power Panels and your Nature's Generator Lithium 1800. Make sure all the connectors are properly secured.
4. Follow the solar panel layout diagrams on this manual and make sure no more than three Nature's Generator 100W Power Panels are connected in series. If the LCD display shows protection code E10 or E11, it means the solar panel layout is not correct.

### ***My wind turbine cannot recharge my Nature's Generator Lithium 1800.***

Please follow these steps.

1. If you are not using Nature's Generator Wind Turbine, make sure the other wind turbine has similar specifications.
2. Make sure there is sufficient wind that spins the wind turbine fast enough. The wind turbine must spin fast enough to generate high enough voltage to recharge Nature's Generator Lithium 1800.
3. Check the cable connections on your Nature's Generator Wind Turbine and Nature's Generator Lithium 1800. Make sure all the connectors are properly secured.
4. If possible, use the power drill to turn the rotor shaft of the wind turbine to do a simulation test. Set the power drill at high speed mode and use the appropriate drive bit to turn the rotor shaft of the wind turbine. If the wind turbine is good, it should recharge Nature's Generator Lithium 1800.

### ***My wall outlet cannot recharge my Nature's Generator Lithium 1800.***

Please follow these steps.

1. Make sure there is power from the wall outlet that Nature's Generator Lithium 1800 is connected to.
2. Check your power cable connectors and make sure all the connectors are properly secured.
3. Check if there is any protection code on the LCD display. If it shows the protection code of E4 or E5, it means the power from the wall outlet is abnormal. You need to use another power source.

## My Nature's Generator Lithium 1800 does not power my AC device(s).

Please follow these steps:

1. Verify your AC devices are suitable for use with your Nature's Generator Lithium 1800. The Nature's Generator Lithium 1800 works with 120V 15A 1800W maximum.
2. Some devices might require grounding before they can be used. Ground Nature's Generator Lithium 1800 before trying to power these types of devices.
3. Some devices might draw far more than 1800W when starting up, even if their running wattage is less than 1800W. Check that device's manual to obtain more information.
4. Make sure the main power is turned on by pressing and holding the Main Power Button.
5. Make sure the AC outlets are turned on by pressing the AC On/Off Button.
6. Check if there is any protection code on the LCD display and follow the solutions below to solve the issue.

Protection Codes	Solutions
  Icon flashes. Icon stays on.	The inverter is protected. Remove the connections from all the input ports and output ports. Restart Nature's Generator Lithium 1800.
  Icon flashes. Icon stays on.	The battery is protected. Remove the connections from all the input ports and output ports. Restart Nature's Generator Lithium 1800.
  Icon flashes together. Icon stays on.	The inverter is protected from over loading. Remove the connections from all the input ports and output ports. Restart Nature's Generator Lithium 1800.
  Icon flashes together. Icon stays on.	The inverter is protected from high temperature. Make sure the fan is not blocked and place Nature's Generator Lithium 1800 in a cool location for 2 hours. Restart Nature's Generator Lithium 1800.
  Icon flashes together. Icon stays on.	The inverter is protected from high current load. Make sure the AC device is suitable for Nature's Generator Lithium 1800. Remove the connections from all the input ports and output ports. Restart Nature's Generator Lithium 1800.
  UPS Overload Circuit Breaker pops up.	The inverter is protected from overload in Uninterrupted Power Supply mode. Remove the connections from all the input ports and output ports. Press the UPS Overload Circuit Breaker. Restart Nature's Generator Lithium 1800.
	The battery is protected from high voltage. Discharge Nature's Generator Lithium 1800 by 12V DC port or USB ports.
	The battery is protected from low voltage. Recharge Nature's Generator Lithium 1800 by wall outlet, solar panels or wind turbine.
	The inverter is protected. Remove the connections from all the input ports and output ports. Restart Nature's Generator Lithium 1800.
	The inverter is protected. Remove the connections from all the input ports and output ports. Restart Nature's Generator Lithium 1800.

***My Nature's Generator Lithium 1800 battery drains fast.***

Please follow these steps.

1. Check the wattage of your AC device(s). Some devices like a hair dryer, microwave or vacuum draw large amounts of power and thus the battery drains fast. Please always monitor the wattage output information on the LCD display.
2. When your AC device is not in use, turn off AC outlets of your Nature's Generator Lithium 1800 to conserve power. The AC outlets consume a considerable amount of power even while nothing is connected to the AC outlets.
3. When Nature's Generator is not in use, press and hold the Main Power Button to turn off the main power to eliminate unnecessary battery drainage.

## ***Technical Specifications***

### ***Battery:***

Type: Lithium Iron Phosphate (LiFePO4)  
Capacity: 48V 30Ah (1440Wh)  
Life Cycles: > 3000 cycles  
Self-discharge: Recommend to recharge every 6 months

### ***Inverter:***

Output Continuous Power: 1800W  
Output Peak Power: 3600W  
Output Voltage: 120V single phase  
Output Frequency: 60Hz  
Output Power Form: pure sine wave  
Output Outlets: 4 totally

### ***Ports:***

USB-A Ports: 5V 2.4A 12W per port.  
USB-A Fast Charge Ports: 20V 3A 60W per port.  
USB-C Ports: 20V 5A 100W per port.  
12V DC Port: 12V 10A 120W  
Expansion Port: Built-in

### ***Charges:***

AC Charger: 1000W  
Solar Charger: 600W  
Wind Charger: 150W (shared port)  
Charge mode: MPPT

### ***General:***

Dimensions: 15.4 x 8.9 x 11.6 inches (392\*226\*294mm)  
Optimal Operating temperature: 68 – 86°F (20 – 30°C)  
Storage Temperature: 14 – 113°F (-10 – 45°C)  
Charging Temperature: 32 – 113°F (0 – 45°C)  
Discharging Temperature: 14 – 113°F (-10 – 45°C)  
Weight: 40 lbs (18 kg)

## ***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.

### ***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

