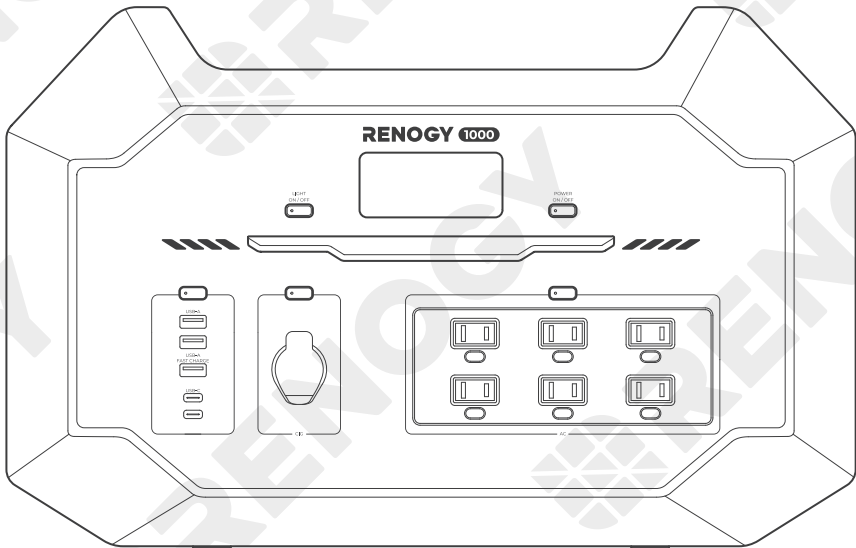


RENOGY 1000

Portable Power Station

RPS100150AA-PCS

VERSION A1



USER MANUAL

Before Getting Started

The user manual provides important operation and maintenance instructions for RENOGY 1000 Portable Power Station (hereinafter referred to as Portable Power Station).

Read the user manual carefully before operation and save it for future reference. Failure to observe the instructions or precautions in the user manual can result in electrical shock, serious injury, or death, or can damage the portable power station, potentially rendering it inoperable.

- Renogy ensures the accuracy, sufficiency, and the applicability of information in the user manual at the time of printing due to continual product improvements that may occur.
- Renogy assumes no responsibility or liability for personal and property losses, whether directly and indirectly, caused by the user's failure to install and use the product in compliance with the user manual.
- Renogy is not responsible or liable for failures, damages, or injuries resulting from repair attempted by unqualified personnel, improper installation and operation.
- The illustrations in the user manual are for demonstration purposes only. Details may appear slightly different depending on product revision and market region.
- Renogy reserves the right to change the information in the user manual without notice. For the latest user manual, visit [renogy.com](https://www.renogy.com).

Disclaimer

RENOGY 1000 Portable Power Station User Manual © 2023 Renogy. All rights reserved.

RENOGY and **RENOGY** are registered trademarks of Renogy.

- All information in the user manual is subject to copyright and other intellectual property rights of Renogy and its licensors. The user manual may not be modified, reproduced, or copied, in whole or in part, without the prior written permissions of Renogy and its licensors.
- The registered trademarks in the user manual are the property of Renogy. The unauthorized use of the trademarks is strictly prohibited.

Online Manual



User Manual



DC Home App



DC Home App






Table of Contents

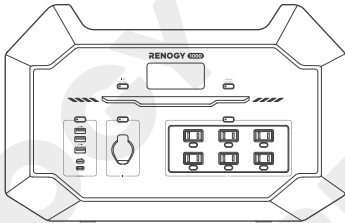
Symbols Used	1
What's In the Box?	1
Optional Accessories	1
Get to Know RENOGY 1000 Portable Power Station	2
LCD Display	3
Environmental Conditions	3
Turning On/Off	4
Communication with DC Home	4
Bluetooth Connection.....	4
How to Customize Parameters	4
How to Charge by Solar Panels	5
How to Charge by AC Power	5
How to Charge by Car	5
How to Power Your Devices	6
USB-A/USB-C Devices	6
Car-Powered Devices via CIG.....	6
AC Devices	7
Automatic Power-Off	7
Standby Power Supply (SPS)	7
Parallel Connection	8
Strip Lights Operation	8
Troubleshooting	9
Specifications	10
General	10
Battery	10
Input	10
Output	10
Maintenance & Storage	11
Inspection.....	11
Cleaning.....	11
Storage.....	11
Important Safety Instructions	12
General Safety Information	12
Portable Power Station Safety.....	12
Charging Safety	12
Discharging Safety	12
Solar Charging Safety	12
Renogy Support	13
Warranty	13

Symbols Used

The following symbols are used throughout the user manual to highlight important information.

-  **WARNING:** Indicates a potentially dangerous condition which could result in injury or death.
-  **CAUTION:** Indicates a critical procedure for safe and proper installation and operation.
-  **NOTE:** Indicates an important step or tip for optimal performance.

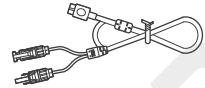
What's In the Box?



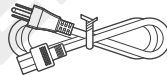
RENogy 1000
Portable Power Station × 1



User Manual × 1



Solar Charge Cable × 1



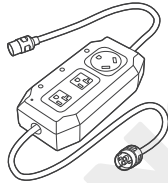
AC Power Cable × 1



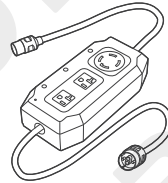
Car Charge Cable × 1

-  Make sure that all accessories are complete and free of any signs of damage.


Optional Accessories



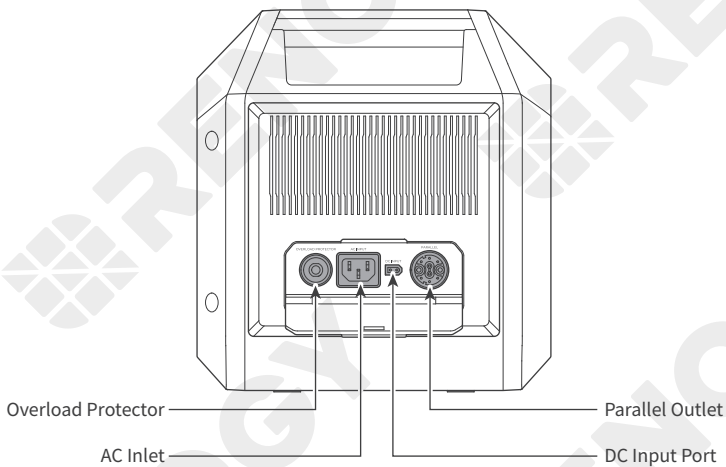
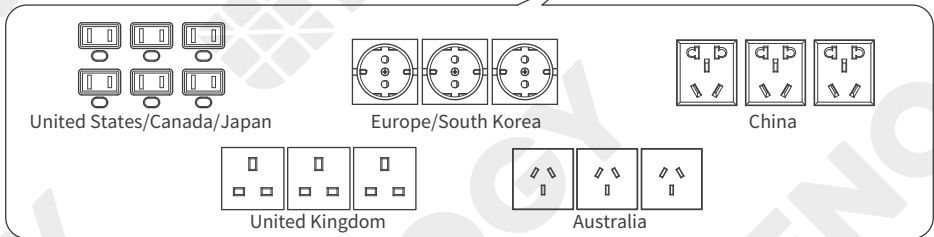
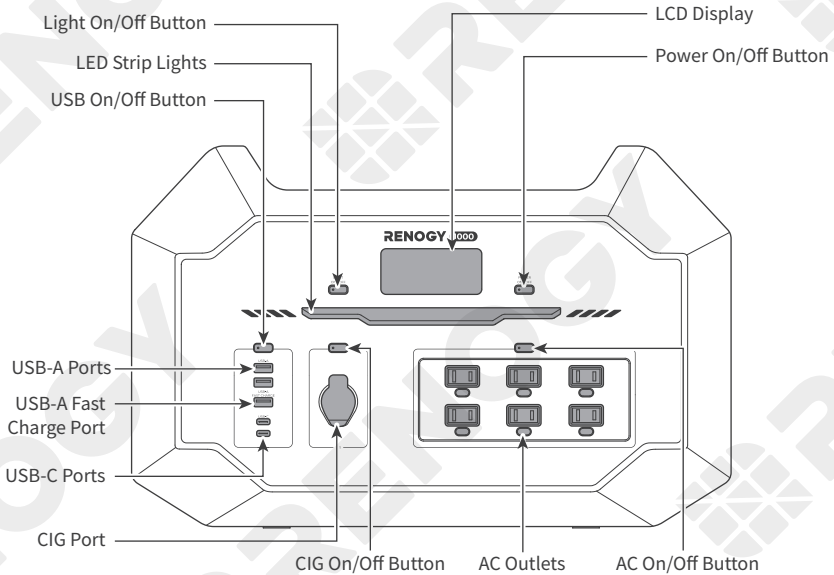
Single Phase Parallel Kit



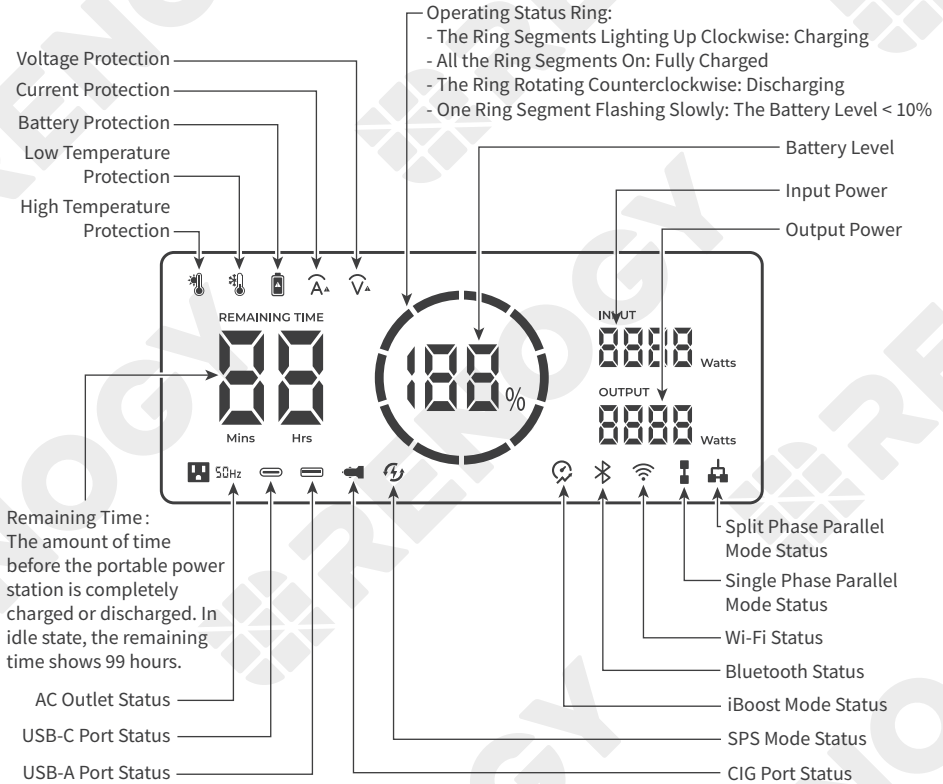
Split Phase Parallel Kit
(US/CA/JP Models Only)

-  The optional accessories are available on [renogy.com](https://www.renogy.com).

Get to Know RENOGY 1000 Portable Power Station

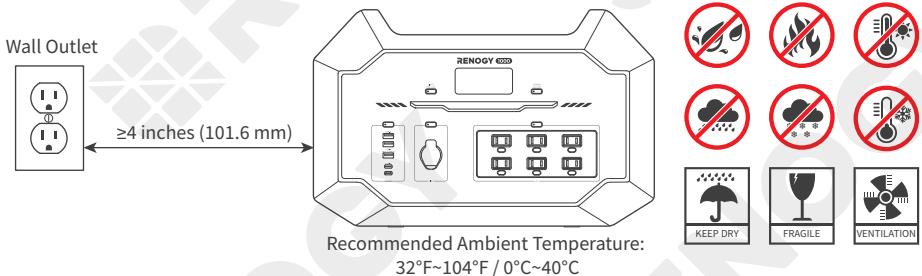


LCD Display

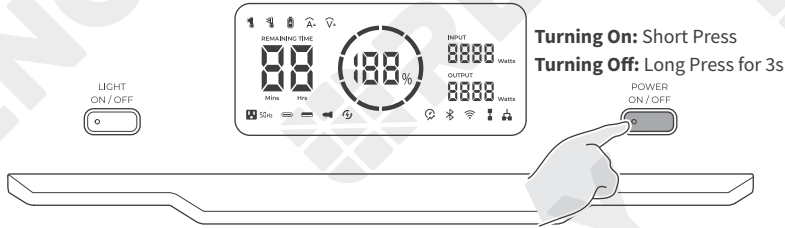


- i** Pay attention if the [High Temperature Protection], [Low Temperature Protection], [Battery Protection], [Current Protection], or [Voltage Protection] icon appears. Please refer to the "[Troubleshooting](#)" section for detailed instructions.
- i** When no operation is made for 5 minutes, the LCD Display will go out automatically to save energy. Short press the Power On/Off Button to light up the LCD Display.

Environmental Conditions

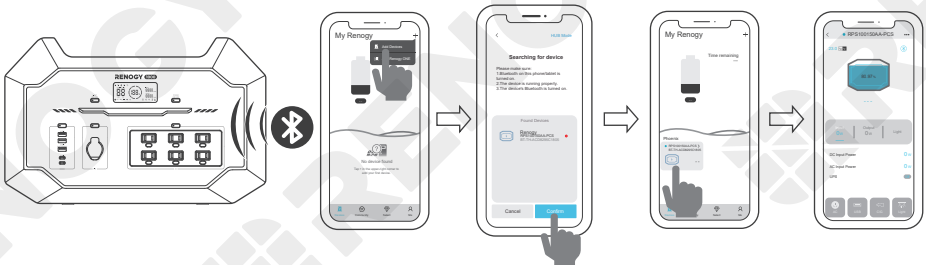


Turning On/Off

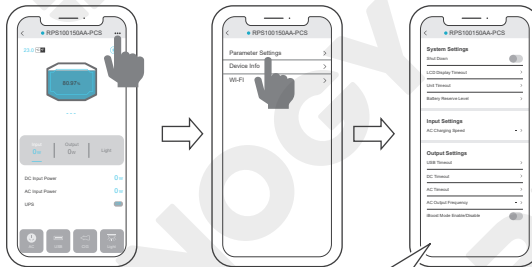


Communication with DC Home

Bluetooth Connection



How to Customize Parameters



Shut Down: Power on/off the portable power station.

LCD Display Timeout: Set the timeout of the LCD Display.

Unit Timeout: Set the timeout of the portable power station.

Battery Reserve Level: Check the battery reserve level of the portable power station.

AC Charging Speed: Set the AC charging parameters.


USB Timeout: Set the timeout of the USB-A Ports, the USB-A Fast Charge Port, and the USB-C Ports.

DC Timeout: Set the timeout of the CIG Port.

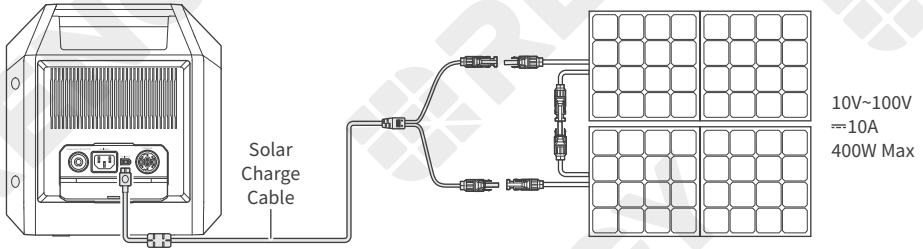
AC Timeout: Set the timeout of the AC Outlets.

AC Output Frequency: Set the output frequency of the AC Outlets.

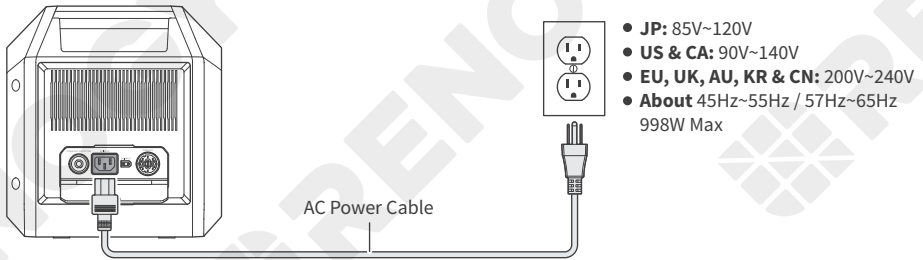
iBoost Mode Enable/Disable: Turn on/off the iBoost Mode of the AC Outlets.

 The portable power station only connects to the 2.4GHz Wi-Fi network.

How to Charge by Solar Panels

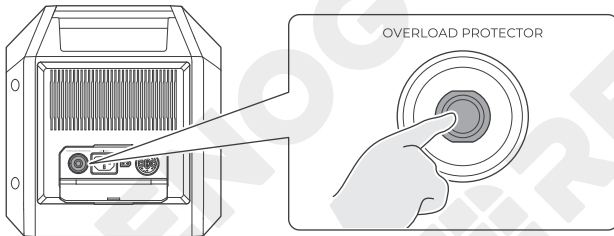


How to Charge by AC Power

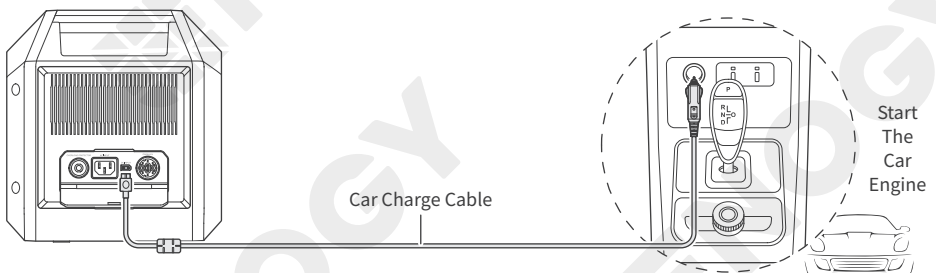


i The iTurbo technology enables the portable power station to be charged up to 80% within 1 hour.

When the charging current exceeds the current rating of the AC Inlet, the Overload Protector will pop up automatically and the AC charging stops. Please disconnect the AC power cable first and press down the Overload Protector to reset it. Contact us for help if the Overload Protector pops up again: renogy.com/contact-us/.



How to Charge by Car

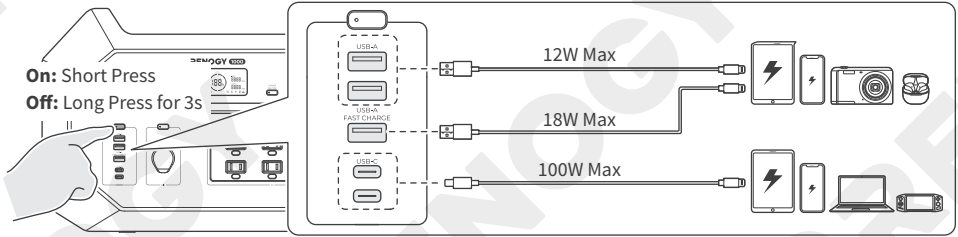


How to Power Your Devices

The portable power station can provide a total output power of up to 2100W. When the portable power station is overloaded, it will turn off the USB-A Ports, USB-A Fast Charge Port, and USB-C Ports, CIG Port, and AC Outlets in sequence until the total output power drops below 2100W.

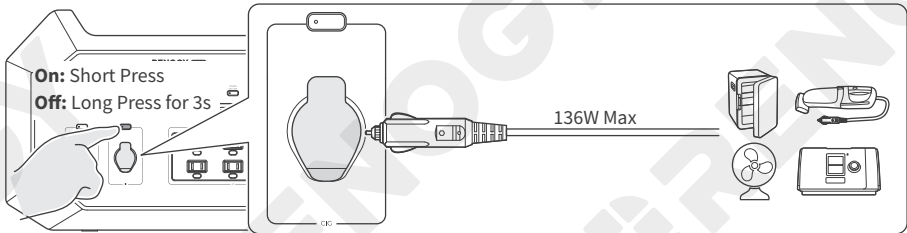
- ⓘ The portable power station might not be able to deliver exact 998.4Wh energy when powering high power devices.

USB-A/USB-C Devices



- ⓘ When both the USB-C Ports are in use, each USB-C Port can only deliver up to 60W output power.
- ⓘ To get up to 18W output power from the USB-A Fast Charge Port, the USB-A device must support the Quick Charge (QC) standard.
- ⓘ To get up to 100W output power from the USB-C Input/Output Port, the USB-C device must support the Power Delivery (PD) standard.
- ⓘ When the device draws low or no power from the USB-A Ports, USB-A Fast Charge Port, and USB-C Ports for 1 hour, the USB-A Ports, USB-A Fast Charge Port, and USB-C Ports will turn off automatically to save energy.

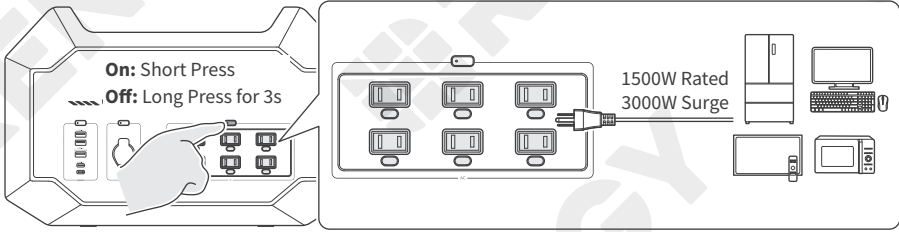
Car-Powered Devices via CIG



- ⓘ When the device draws low or no power from the CIG Port for 1 hour, the CIG Port will turn off automatically to save energy.

AC Devices

The iBoost mode allows the AC Outlets to power most resistive AC devices rated between 1500W and 3000W. The iBoost mode is enabled by default. The iBoost mode is not applicable for the inductive and capacitive AC devices with strict voltage limits.



Please select the output frequency of the portable power station in accordance with the AC device specifications.



The portable power station might not be able to power the AC devices that require high starting currents even though they are rated under 1500W.



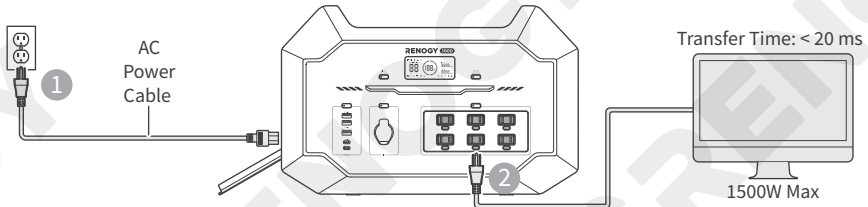
When the device draws low or no power from the AC Outlets for 1 hour, the AC Outlets will turn off automatically to save energy.

Automatic Power-Off

When the Portable Power Station is not being charged and the USB-A Ports, USB-A Fast Charge Port, USB-C Ports, CIG Port, and AC Outlets are off for 1 hour, the portable power station will turn off automatically to save energy.

Standby Power Supply (SPS)

The portable power station can work as a SPS to deliver emergency AC power to devices during a power outage.



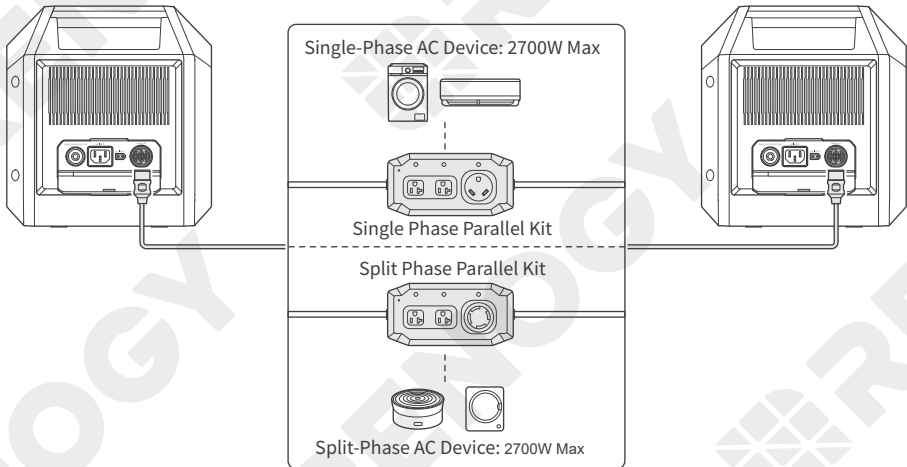
DO NOT connect AC devices that require a transfer time less than 20ms (such as data servers and workstations) to the portable power station for uninterrupted AC power. Please check the holdup time of the power supply units (PSU) in the AC devices to confirm the compatibility.



The iBoost mode will be automatically disabled when the SPS mode is turned on.

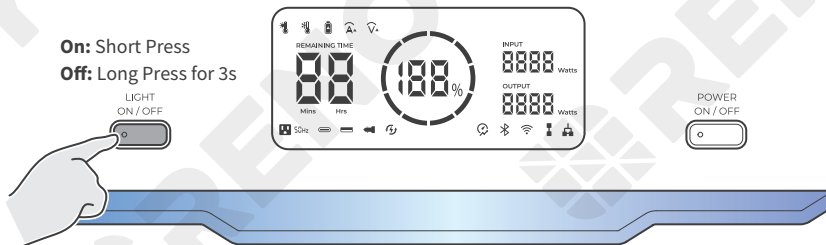
Parallel Connection

The iStack technology allows two RENOGY 1000 portable power stations to be connected in parallel to deliver 1996.8Wh capacity and 2700W AC output.



- ⚠** Please ensure that the AC Outlets of the two portable power stations have the same output voltage and output frequency.
- i** Please ensure that the two RENOGY 1000 portable power stations have AC Outlets turned on.
- i** The AC Inlet will be disabled with AC charging and SPS mode off when the single phase parallel kit is connected to the portable power station.
- i** The AC Outlets will be turned off temporarily when connecting the two portable power stations in parallel.













Strip Lights Operation





- i** When the LED Strip Lights are on, short press the Light On/Off Button to switch the lighting modes, and the LED Strip Lights light off. The LED Strip Lights offer three lighting modes – solid, breath, and flow.
- i** When the portable power station is being charged, the LED Strip Lights will automatically turn on in breath mode by default.

Troubleshooting

If the portable power station does not operate properly, refer to the table below for possible causes and corrective steps. If the corrective steps do not work, contact our customer service through renogy.com/contact-us/.

Icons	Possible Causes	Corrective Steps
INPUT  50Hz  Slow Flash	AC Input Overvoltage/Undervoltage	<ul style="list-style-type: none"> ● Disconnect the AC Inlet from the wall outlet. ● Measure the voltage of the wall outlet. Stop using the wall outlet if its voltage falls outside the specifications of the AC Inlet. ● Connect the AC Inlet to the wall outlet with the appropriate voltage. Charging can be resumed.
INPUT  Slow Flash	DC Input Overvoltage/Undervoltage	<ul style="list-style-type: none"> ● Disconnect the charging source from the DC Input Port. ● Check the voltage rating of the charging source. Stop using the charging source if its output voltage is rated lower than 10V or higher than 100V. ● Connect a charging source with the appropriate voltage rating to the DC Input Port. Charging can be resumed.
  Slow Flash	<ul style="list-style-type: none"> ● USB-A ● USB-A Fast Charge ● USB-C ● CIG ● AC Output Overvoltage/Undervoltage	<ul style="list-style-type: none"> ● Disconnect the devices from the alarm ports. ● Short press the On/Off Buttons corresponding to the alarm ports with the LCD Display lit up to release the protection. ● Reconnect the devices to the alarm ports. ● Contact us for help if the icons persist.
  Slow Flash	<ul style="list-style-type: none"> ● USB-A ● USB-A Fast Charge ● USB-C ● CIG ● AC Output Overcurrent/Short Circuit	<ul style="list-style-type: none"> ● Disconnect the devices from the alarm ports. ● Remove the short circuit if the alarm port is shorted. ● Check the current rating and power rating of the device. If the current and power of the device exceed the alarm port ratings, stop using the device. ● Short press the On/Off Buttons corresponding to the alarm ports with the LCD Display lit up to release the protection. ● Connect the device with the appropriate current rating to the alarm ports. Power can be resumed.
  Slow Flash	Inverter High Temperature	<ul style="list-style-type: none"> ● Check if the fan inlet and outlet are blocked. ● Cool down the portable power station to the room temperature. ● Short press the AC On/Off Button with the LCD Display lit up to release the protection. Power can be resumed.
OUTPUT  Slow Flash	Total Output Overload	<ul style="list-style-type: none"> ● Reallocate the output power to ensure that the total output power is under 2100W. ● Short press the Power On/Off Button with the LCD Display lit up to release the protection. ● Short press the USB On/Off Button, CIG On/Off Button, or AC On/Off Button to turn on the USB-A Ports, USB-A Fast Charge Port, and USB-C Ports, CIG Port, or AC Outlets again. Power can be resumed.
  Slow Flash	Battery High Temperature	<ul style="list-style-type: none"> ● Disconnect all the connections from the portable power station. ● Check if the fan inlet and outlet are blocked. ● Cool down the portable power station to the room temperature. ● Reconnect the charging source(s) to the portable power station. Charging can be resumed. ● Short press the USB On/Off Button, CIG On/Off Button, or AC On/Off Button to turn on the USB-A Ports, USB-A Fast Charge Port, and USB-C Ports, CIG Port, or AC Outlets again. Power can be resumed.

Icons	Possible Causes	Corrective Steps
 Slow Flash	Battery Low Temperature	<ul style="list-style-type: none"> ● Warm up the portable power station. ● Charging can be resumed automatically. ● Short press the USB On/Off Button, CIG On/Off Button, or AC On/Off Button to turn on the USB-A Ports, USB-A Fast Charge Port, and USB-C Ports, CIG Port, or AC Outlets again. Power can be resumed.
 Fast Flash	Single/Split Phase Parallel Failure	<ul style="list-style-type: none"> ● Disconnect the single/split phase parallel kit from the portable power stations. ● Check the models of the portable power stations. Stop connecting the portable power stations in parallel if they are of different models. ● Check the output voltages of the AC Outlets. Stop connecting the portable power stations in parallel if their AC Outlets have different output voltages. ● Set the AC Outlets of the portable power stations to the same output frequency. ● Fully charge the portable power stations. ● Reconnect the portable power stations in parallel with the single/split phase parallel kit.

Specifications

General

Dimension	18.27 x 10.79 x 11.57 inch / 464 x 274 x 294 mm
Weight	41.0 lbs / 18.6 kg
Charge Temperature	32°F~104°F / 0°C~40°C (Recommended) 32°F~131°F / 0°C~55°C (Extreme)
Discharge Temperature	-4°F~104°F / -20°C~40°C (Recommended) -4°F~131°F / -20°C~55°C (Extreme)
Storage Temperature	-4°F~95°F / -20°C~35°C

Battery

Type	Lithium Iron Phosphate
Capacity	41.6V, 24000mAh / 998.4Wh
Cycle Life	3000 Cycles (80% DOD, 80% EOL)

Input

AC Input	85V~120V (JP)/90V~140V (US & CA)/200V~240V (EU, UK, AU, KR & CN) About 45Hz~55Hz/57Hz~65Hz, 998W Max
DC Input	10V~100V $\overline{\text{---}}$ 10A, 400W Max

Output

USB-A Output (x2)	5V $\overline{\text{---}}$ 2.4A, 12W Max
USB-A Fast Charge Output (x1)	5V $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 2A, 12V $\overline{\text{---}}$ 1.5A, 18W Max
USB-C Output (x2)	5V $\overline{\text{---}}$ 3A, 9V $\overline{\text{---}}$ 3A, 12V $\overline{\text{---}}$ 3A, 15V $\overline{\text{---}}$ 3A, 20V $\overline{\text{---}}$ 5A, 100W Max



CIG Output (x1)	13.6V \approx 10A, 136W Max
AC Output (x3/x6)	100V (JP)/120V (US & CA)/220V~240V (EU, UK, AU, KR & CN) About 50Hz/60Hz, 1500W Rated, 3000W Surge
Total Output	2100W Max

Maintenance & Storage

Inspection

For optimum performance, it is recommended to perform these tasks regularly.

- Check the appearance of the portable power station to make sure it is clean and dry.
- Ensure the portable power station is used or stored in a clean, dry, and ventilated area.
- Make sure that the LCD Display is in normal state.
- Ensure there is no corrosion, insulation damage, or discoloration marks of overheating or burning.

-  Risk of electric shock! Make sure that all power is turned off before touching the terminals on the portable power station.
-  The portable power station may release toxic gases when burning. Be sure to wear a gas mask when approaching. Put out the fire with a FM-200 or CO₂ fire extinguisher. If pungent gases are inhaled, leave the contaminated area immediately and seek medical attention.


Cleaning

Follow the steps below to clean the portable power station regularly.

- Remove all the connections from the portable power station and turn off the portable power station.
- Clean the casing of the portable power station with a soft dry cloth.
- Turn the portable power station back on and reconnect the devices to the portable power station.

Storage

- Charge the portable power station to 50%.
- Remove all the connections from the portable power station and turn off the portable power station.
- Store the portable power station in a well ventilated, dry, clean area with temperatures between -4°F (-20°C) and 95°F (35°C) and humidity between 10% and 90%.
- For long term storage, discharge the portable power station to 30% and charge it to 50% every 6 months.
- Fully charge the portable power station when it is taken out of the storage.

-  Handle the portable power station carefully to avoid sharp impacts or extreme pressure on the casing of the portable power station.

Important Safety Instructions

General Safety Information

- Keep the portable power station out of the reach of children.
- Do not dispose of the portable power station as household waste. Comply with local, state, and federal laws and regulations and use recycling channels as required.
- In the event of fire, use fire extinguishers suitable for electrical equipment. Acceptable fire extinguishers include an FM-200 or CO₂ fire extinguisher.
- Do not expose the portable power station to flammable or harsh chemicals or vapors.

Portable Power Station Safety

- Do not puncture, drop, crush, penetrate, shake, strike, or step on the portable power station.
- Do not open, dismantle, repair, tamper with, or modify the portable power station.
- Do not insert foreign objects into the portable power station.
- Do not immerse the portable power station in water or leave it out in the rain.
- Do not expose the portable power station to direct flame.
- Keep the portable power station away from flammable or combustible materials.
- Keep the portable power station away from heating equipment.
- Ensure that there is no water source including downspouts, sprinklers, or faucets above or near the portable power station.
- Ensure that snow does not accumulate around the portable power station.
- Risk of explosion! When being charged, the portable power station may give off noxious or explosive gas. Make sure there is good ventilation.
- Do not expose the portable power station to strong electrostatic fields, strong magnetic fields, or radiation.
- Do not lean on, stack anything on top of, or hang anything from the portable power station or from cables leading to the portable power station.
- Do not touch the exposed electrolyte or powder if the portable power station is damaged.
- Please inspect the portable power station before each use. Stop using the portable power station if any visible damages including cracks, dents, and deformation or abnormalities including unusual smells and heating are observed.

Charging Safety

- Only use Renogy approved accessories to charge the portable power station.
- Do not use damaged accessories to charge the portable power station as it might cause electric shock.
- Do not charge the portable power station immediately after a long heavy run.
- The portable power station turns on automatically once it detects the charging source(s).
- To prevent car battery overdischarge, charge the portable power station while the car engine is started.
- Do not charge the portable power station at high temperatures above 131°F (55°C) or low temperatures below 32°F (0°C). The recommended charge temperature range is between 32°F (0°C) and 104°F (40°C).

Discharging Safety

- Please charge the portable power station immediately when the battery level drops below 10% to prevent overdischarge.
- Do not discharge the portable power station at high temperatures above 131°F (55°C) or low temperatures below -4°F (-20°C). The recommended discharge temperature range is between -4°F (-20°C) and 104°F (40°C).
- To extend the cycle life, please fully charge the portable power station before each use.
- Do not use the portable power station with life support equipment or other medical equipment.

Solar Charging Safety

- Do not use damaged solar panels.
- Place a solar panel (sold separately) under direct sunlight. Steer clear of objects that can shade the solar panel and slow down the charging process.
- For optimal charging performance, it is recommended to charge the portable power station with the solar panel array on bright sunny days free of clouds.

Renogy Support

To discuss inaccuracies or omissions in this quick guide or user manual, visit or contact us at:

 | renogy.com/support/downloads



 → contentservice@renogy.com

For technical questions about your product in the U.S., contact the Renogy technical support team through:

 | renogy.com/contact-us



1(909)2877111

For technical support outside the U.S., visit the local website below:

Canada |  | ca.renogy.com

China |  | www.renogy.cn

United Kingdom |  | uk.renogy.com

U.S. |  | www.renogy.com

Australia |  | au.renogy.com

Japan |  | renogy.jp

France |  | fr.renogy.com

Germany |  | de.renogy.com

Spain |  | es.renogy.com

South Korea |  | kr.renogy.com

Italy |  | it.renogy.com

Other Europe |  | eu.renogy.com

Warranty

Check out the warranty policies for the product from your local Renogy website. For customers in the U.S., register your product and get your e-warranty at <https://renogy.force.com/helpcenter/s/warrantyregister>.

FCC Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC ID: 2ANPB-RPS100150AA

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (1) Orient or relocate the receiving antenna.
- (2) Increase the separation between the equipment and receiver.
- (3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- (4) Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



Renogy Empowered

Renogy aims to empower people around the world through education and distribution of DIY-friendly renewable energy solutions.

We intend to be a driving force for sustainable living and energy independence.

In support of this effort, our range of solar products makes it possible for you to minimize your carbon footprint by reducing the need for grid power.



Live Sustainably with Renogy

Did you know? In a given month, a 1KW solar energy system will...



Save 170 pounds of coal from being burned



Save 300 pounds of CO₂ from being released into the atmosphere



Save 105 gallons of water from being consumed



Renogy Power PLUS

Renogy Power Plus allows you to stay in the loop with upcoming solar energy innovations, share your experiences with your solar energy journey, and connect with like-minded people who are changing the world in the Renogy Power Plus community.



@Renogy Solar



@renogyofficial



@Renogy

Renogy reserves the right to change the contents of this manual without notice.



eVatmaster Consulting GmbH
Battinastr. 30
60325 Frankfurt am Main, Germany
contact@evatmaster.com



EVATOST CONSULTING LTD
Suite 11, First Floor, Moy Road Business
Centre, Tarf Weli, Cardiff, Wales, CF15 7QB
contact@evatmaster.com