

SEGWAY

Segway Portable Power Station
LM-500



Raccolta Carta

xx
CE.04.00.1043.00-B

——— User Manual ———

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1 Safety Instructions



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 power pack 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 power pack.
- Do not use a battery pack or appliance that is damaged or modified. Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- Do not operate the power pack with a damaged cord or plug, or a damaged output cable.
- Do not disassemble the power pack, 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.
- To reduce the risk of electric shock, unplug the power pack from the outlet before attempting any instructed servicing.
- When charging the internal battery, work in a well ventilated area and do not restrict ventilation in any way.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Do not expose a power pack to fire or excessive temperature. Exposure to fire or temperature above 265°F (130°C) may cause explosion.
- Have servicing performed by a qualified repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- Do not expose the product to sources of ignition or high temperatures, such as high heat vehicles or direct sunlight.
- Keep the product dry and do not immerse it in water or subject it to moisture. Do not use the product in rainy or humid environments.
- Avoid using the product in a strong static/magnetic field environment.
- When using the product, please follow the operating ambient temperature specified in the user manual. If the temperature is too high, it may cause a fire or explosion; if the temperature is too low, it may seriously degrade the performance of the product or stop the product from working.

- When storing the product for a long time, place it in a dry and ventilated place.
- Avoid obstructing the fan or placing the product in an unventilated or dusty area.
- Do not disassemble the product or pierce the product with sharp objects.
- Avoid impact, falling or violent vibration. If a serious impact occurs, please turn off the power and stop using the product immediately.
- Avoid using wires or other metal objects that may cause a short circuit.
- Do not use damaged cords, plugs or output cables to connect this product to avoid electric shock.
- Do not use unofficial components or accessories. If you need to replace any component or accessory, consult the official Segway channel.
- Do not stack heavy objects on the product.
- Do not place the product on an unstable surface to prevent the product from tipping over or falling.
- Ensure that the product is kept out of the reach of children and pets.
- This product is not recommended for powering medical emergency equipment related to personal safety, including medical grade ventilators and artificial lungs. If you need to power this product, follow your doctor's instructions and consult the manufacturer. If used for general medical equipment, make sure the power supply is in proper condition.
- When using this product, the power supply generates electromagnetic fields that may interfere with the proper operation of medical implants or personal medical devices such as pacemakers, cochlear implants, hearing aids, defibrillators, etc. If these devices are being used, please contact the manufacturer for restrictions on the use of these devices to ensure that medical implants are kept at a safe distance from this product during use.
- Risk of Electric Shock. Never use power pack to supply power tools to cut or access to live parts or live wirings, or materials that may contain live parts or live wirings inside, such as building walls, etc.

SAVE THESE INSTRUCTIONS



GROUNDING INSTRUCTIONS

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. This product is equipped with a cord having an equipment grounding conductor and a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes ordinances.

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. Do not modify the plug provided with the product – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

⚠ Daily Maintenance

If the product is not in use for over 30 days, please fully charge it and place it in a cool and dry place for storage. If not charged maximum in 6 months, there are enough chances that battery might be damaged.

Battery Disposal Guidelines

- When disposing of the battery, make sure that it is fully discharged and place it in the designated battery recycling bin.
- The battery of this product contains chemical substances and is strictly prohibited to be disposed of in the general trash. Please follow local laws and regulations for battery recycling and disposal.
- If the battery cannot be fully discharged due to product failure, please do not dispose of the battery directly in the battery recycling bin. Please contact a professional battery recycling company for further disposal.

⚠ Safety Precautions When Charging

- When using two or more solar panels to recharge the product, please use the same type of solar panel.
- Do not recharge the product with car charging cables and solar panels at the same time, which may damage the fuse.
- It is recommended to use Segway Accessories - Segway Solar Panel SP for solar charging. Use of other brands of solar panels may cause damage for which we are not responsible.

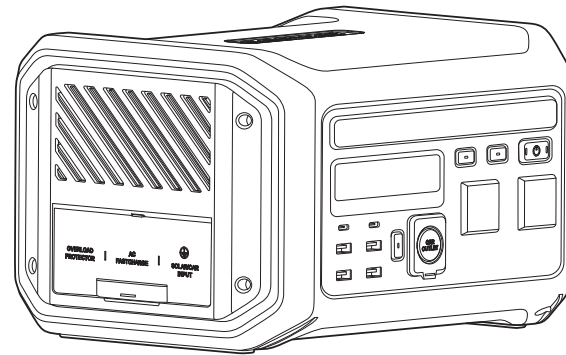
⚠ High Temperature Warning

The product temperature may be too high for powering high-power electric appliances for a long time, and the high-temperature protection may be triggered. For battery safety, the product will automatically limit the output power to lower the temperature. If the limit was reached, the output will be cut off and the charge function will be unavailable. Please stop using the high power loads immediately if this warning appears, cool down the product, then try to use it again.

We take your safety and the protection of our products very seriously. If you have any questions or suggestions, please contact Segway Customer Service.

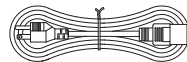
2 Packing List

Segway Portable Power Station:



LM-500

Accessories:



AC Charging Cable x 1



Car Charging Cable x 1

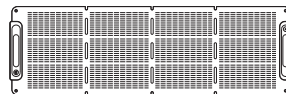


User Manual x 1

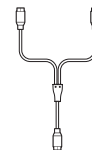


Warranty Policy x 1

* Separately Sold Accessories

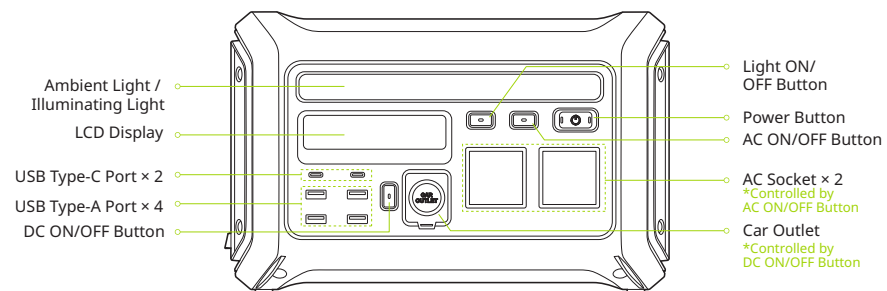
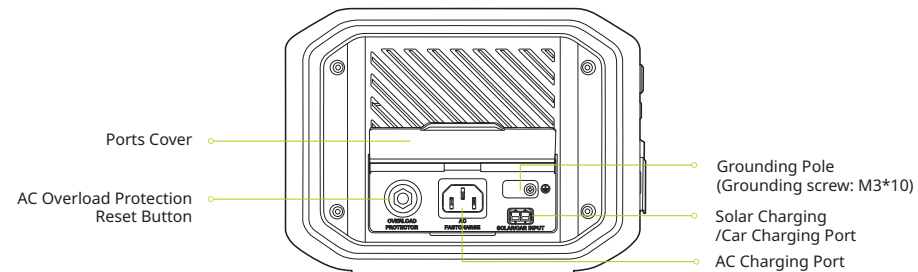
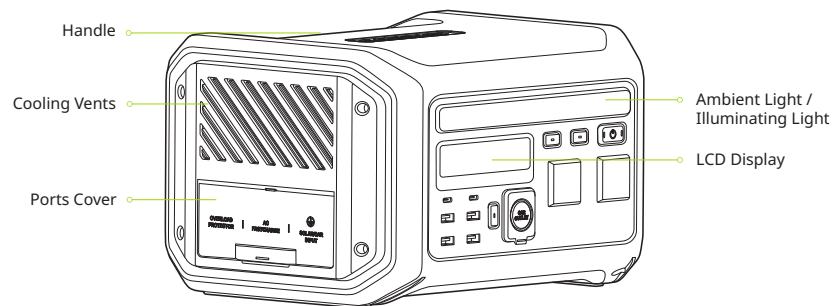


Segway Solar Panel SP

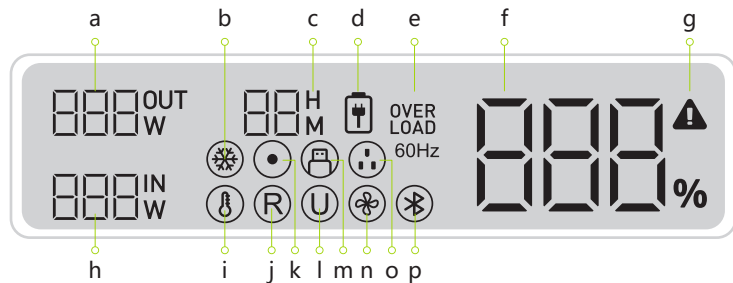


Parallel Connector

3 Product Overview



Display Overview



a **OUT W**

Output Power

b

Low Temperature Protection

Partial input/output power will be decreased automatically when the device temperature is too low.

c **H M**

Remaining Discharge/Charge Time

d

Charging

e **OVER LOAD**

AC Output Overload

f **%**

Battery Level

g

Warning

When the icon lights up, it means the power station is facing a warning or an error has happened to it.

h **IN W**

Input Power

i

High Temperature Protection

Partial input/output power will be decreased automatically when the device temperature is too high.

j **R**

R-Drive

Intelligently adjust the operating power of electric appliances and ensure them work at the rated power of the inverter. Support up to 1200 W loads.

k

DC Output/Car Outlet

l **U**

UPS (Uninterruptible Power Supply)

Automatically switch to inverter-powered if AC input was cut off by power grid failure and make sure electric appliances work normally.

m

USB Output

n

Cooling Fan

The icon indicates that the fan is working.

o

AC Output

The plug icon displayed as AC Output, the output frequency is 60 Hz.

p

Bluetooth

The icon flashes while pairing, and it stays on when the device is connected successfully.

4 Product Activation and App User Guide

- 1 Scan the QR code to download the Segway-Ninebot App to register or log in.

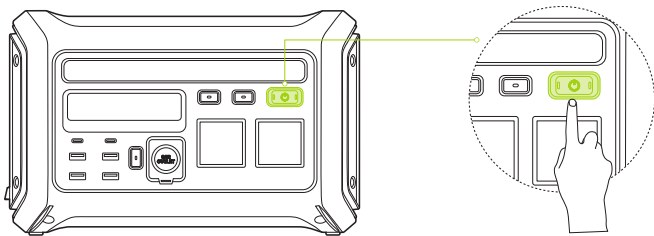


* You can download Segway-Ninebot App from www.segway.com.

* If you cannot use mobile phone or cannot use Segway-Ninebot App, please contact to after-sales service for manual activation method.

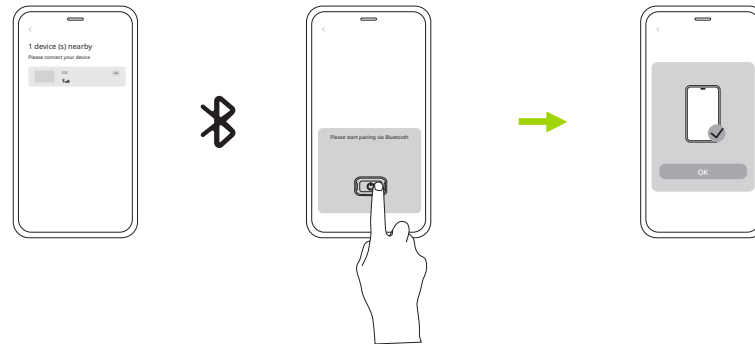
- 2 Press and hold the Power Button to turn on the power station.

* You have to activate product before first use, or the power station will send out a beeping sound.



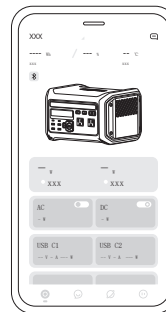
- 3 Tap "Add device" and follow the instructions to connect to the power station via Bluetooth.

* Power station will be activated automatically when it is connected to Segway-Ninebot App for the first time.



- 4 Customize the settings directly via the App. Check the real-time information of the remaining battery, temperature, input/output power of each input/output ports, etc.

* The actual APP features may vary due to the update of technologies or firmware.



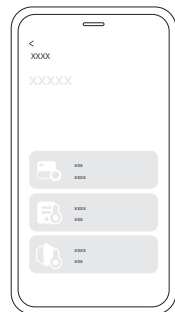
Working
Status

- Remaining Battery Power
- Temperature
- Input Power
- Output Power
- Remaining Charging Duration
- AC Power
- DC Power
- Output of USB Ports
- Help & Feedback
- Light Modes



Device Settings

Set Device Name
 Alternating Current (AC) input power limit
 AC Standby Time
 DC Standby Time
 Device Standby Time
 Screen Time
 AC Output Frequency
 Fan Mode
 R-Drive
 UPS(UninterruptiblePower Supply)
 Button Tone
 Light Settings



Device Info

Device Conditions
 Battery Details
 Unbind

5 How to Use the Power Station

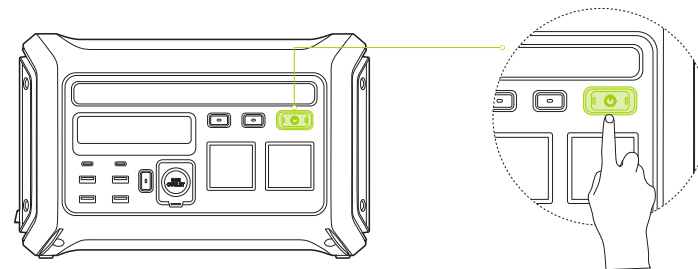
1 Turn on/off

Press and hold the Power Button for over 1 second to turn it on/off.

Press the Power Button to wake up or dim the screen when the power station is on.

Turned on: The power station beeps once and the button indicator lights white.

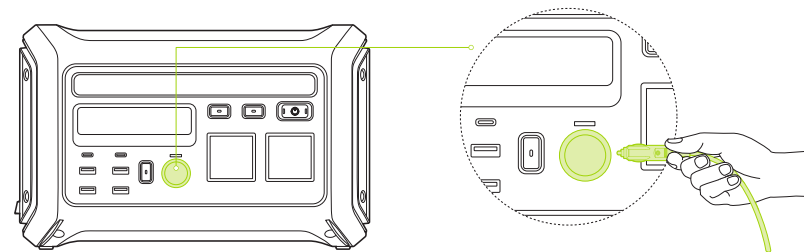
Turned off: The power station beeps once and the button indicator goes off.



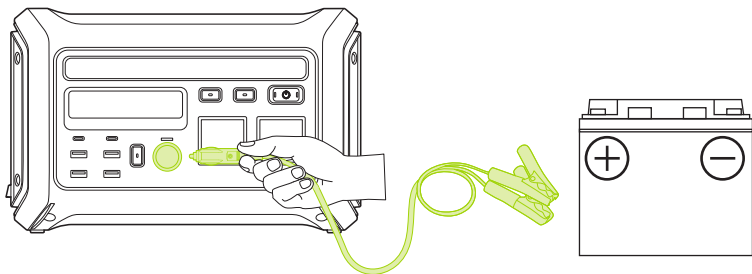
2 DC Output

* Car outlet

a) When the power station is on, press the DC ON/OFF Button to turn on DC output, connect the device to DC output port.



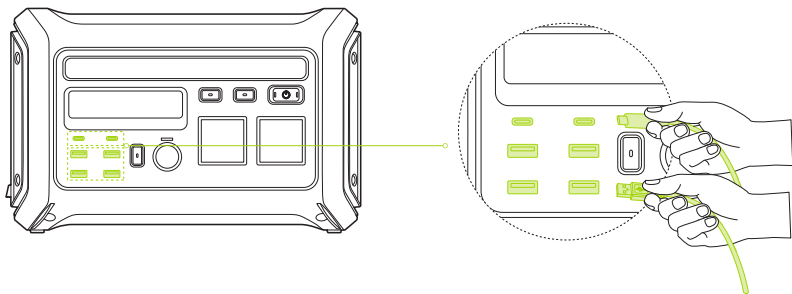
- b) Press the DC ON/OFF Button to turn on car outlet. Car outlet supports constant current output, and can use the specific cable to charge the car battery. (only for charging, can not be used to jump-start the vehicle.)



* Sold separately

3 USB Output

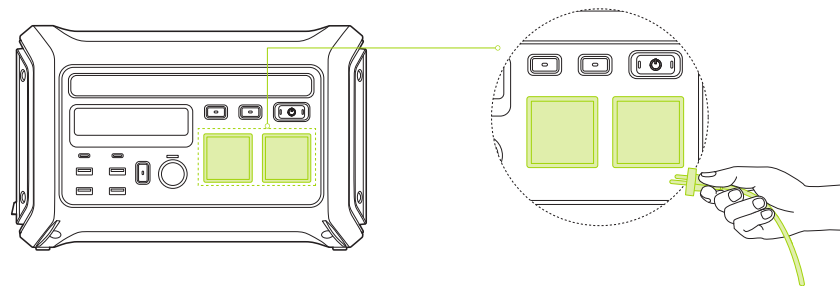
When the power station is on, connect the device to the USB output port.



4 AC Output

When the power station is on, press the AC ON/OFF Button to turn on AC output, connect the device to the AC socket.

Note: The function of AC Output Auto-off can be enabled/disabled via Segway-Ninebot app.



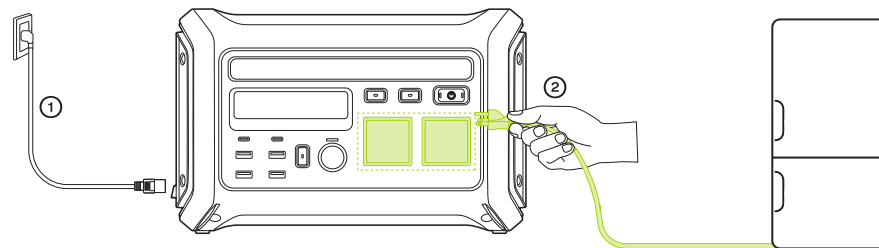
5 UPS Function

When the UPS function is turned on:

Plug the AC charging cable into the wall outlet and connect the other end to the AC charging port of the power station.

Press the AC ON/OFF Button to turn on the AC output, connect the AC device to the AC socket.

* At this point, UPS function is activated, and the power station will automatically switch to inverter-powered when the power grid fails.



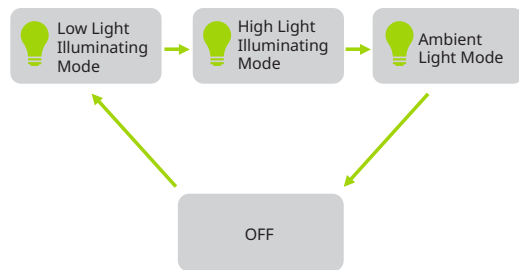
6 Light Settings

a. Interaction Light

1. When operating the power station, the RGB ambient light will light up corresponding effect. (Interaction Light is on by default and can be turned off via Segway-Ninebot App)
2. When power station is powered off and being charged, the interaction light will display light effect of charging. When the LCD display goes off, the Interaction Light will go off too.

b. Illuminating Light

1. As shown in the picture, Illuminating Light has 3 modes, which can be switched by pressing the Light ON/OFF Button.
2. The effects of Ambient Light Mode can be setup via Segway-Ninebot App.



c. SOS Light

When lights is off, press and hold Light ON/OFF Button to turn on SOS Light, and press again to turn it off.

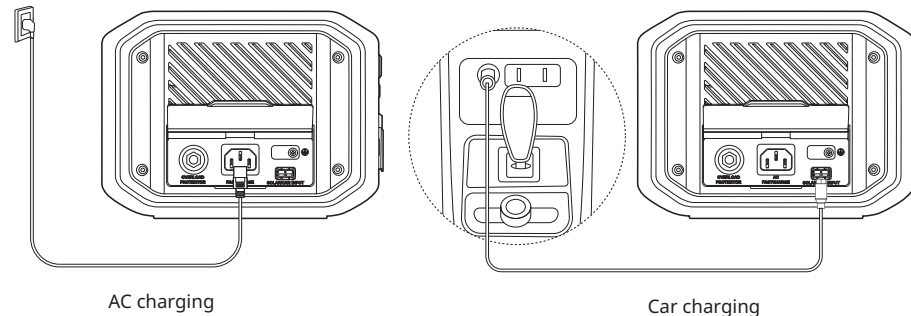
* When using Illuminating Light or SOS Light, the Interaction Light will be off, and Interaction Light will be on after the Illuminating Light is turned off.

7 How to Recharge the Power Station



The power station has two charging ports, AC charging port and solar/car charging port. When recharging the power station, the display will show the charging status. There are five charging methods as below, dual-charging is also available.

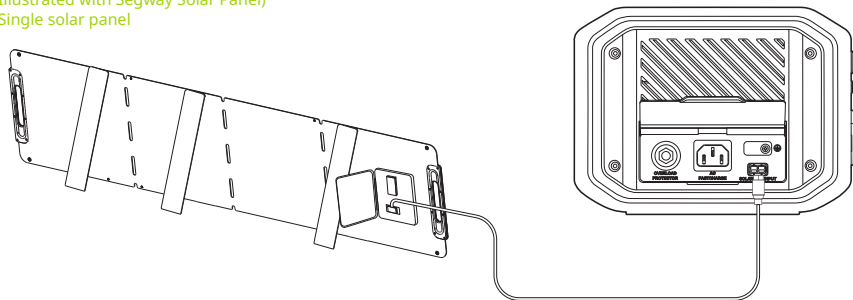
- ① AC charging
* Charging power is adjustable
- ② Car charging
- ③ Solar charging
- ④ AC and solar charging
- ⑤ AC and car charging



Solar Charging

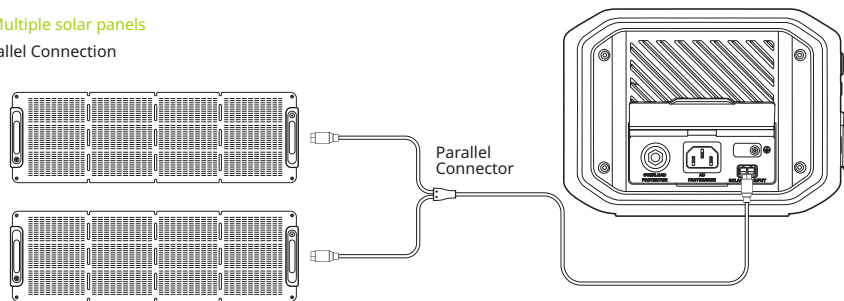
(* Illustrated with Segway Solar Panel)

a. Single solar panel



b. Multiple solar panels

Parallel Connection



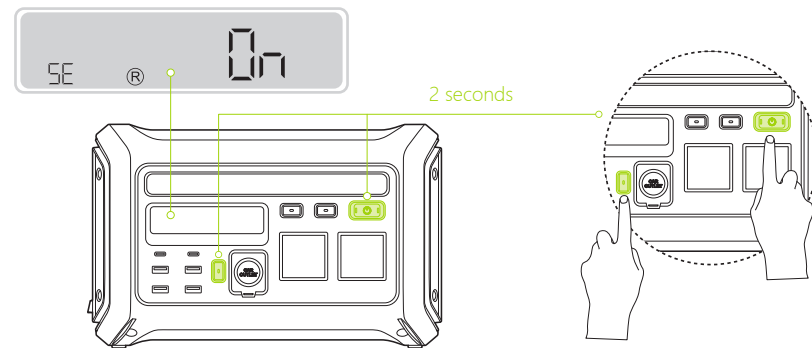
⚠ Warning:

The maximum recharging input of LM-500 is 28 V 200 W, and if excessive recharging voltage will damage the power station.

8 Settings

When the power station is off, press and hold the DC ON/OFF Button and Power Button for 2 seconds at the same time to go to settings.

Note: Charging and discharging are not available during setting.



Basic operations of buttons









Power Button: Press to save and exit settings.

AC ON/OFF Button: Go to the next setting.

DC ON/OFF Button: Switch between the options of the current setting.

Settings

Note: It is recommended to customize these settings directly via Segway-Ninebot App.

Icon	Setting	Display	Options
	Charging Power		<p>The default setting is 600 W, the charging power can be adjusted from 100 W to 600 W.</p> <p>Note: It's recommended to use this function to adjust the charging power when the AC power supply is limited.</p>
	R-Drive ⁽¹⁾		<p>The default setting is on. The function can be turned on/off.</p> <p>* This function is applicable to resistive appliances only. Turn off this function immediately if the appliances can not work normally.</p>
	UPS (Uninterruptible Power Supply) ⁽²⁾		<p>The default setting is on. The function can be turned on/off.</p>
	Fan Mode		<p>Two modes are available.</p> <p>Active cooling mode: The fan works automatically and keeps the power station maintained at a relatively low temperature.</p> <p>Silent mode: The fan works automatically and runs at a relatively low speed and frequency.</p>

Features


1 R-Drive

This function is not applicable to all electric appliances but for resistive appliances only, such as hair dryers and electric kettles. Please test the compatibility before use. High-power appliances like air conditioners, coffee makers, dryers, electric stoves, large refrigerators, microwave ovens, lawnmowers, ovens, and washing machines are not compatible.

2 UPS (Uninterruptible Power Supply)

When the UPS function is enabled, complete the following 3 steps to activate the UPS function:

- Connect the AC charging cable to the AC power source;
- Turn on AC output;
- Connect the appliance to the AC socket;

Then the UPS function is activated, the  symbol on the screen panel lights up, and the AC power source will directly supply power to the appliance connected to the AC socket and charge the battery of the power station at the same time. When the AC power source fails, the power station will automatically switch to inverter-powered for the appliances in 20-30 ms.

- * The UPS function is the offline type and does not support 0ms-switch. Do not use the power station to charge devices that require a continuous power supply. Please test the compatibility before use.
- * When the UPS function is enabled, the maximum output power is 600W. When the AC output power is closely near to 600W, the power station will actively switch to the inverter-powered status. At this time, the power supply of AC input is cut off.
- * When the UPS function is disabled, the AC power source will not directly power the appliance connected to the AC socket, and:
 - if the AC output is turned on, the AC input will be cut off, and the inverter supplies power to the appliance connected to the AC socket;
 - if the AC output is turned off, the AC output will be cut off, and the inverter charges the battery of the power station.

9 Specifications

Power Station	Product Name	Segway Portable Power Station LM-500
	Model	LM-500
	L × W × H*	11.3 × 9.6 × 7.2 in (286 × 245 × 184 mm)
	Net Weight*	Approx. 16.2 lbs (7.35 kg)
	Rated Frequency	60 Hz
	Max. Power of Output in Total	984 W
	AC Max. Output Power	600 W
	DC Max. Output Power	384 W
	AC Input	120 V~6.25 A 60 Hz 750 W Max
	AC Charging Power	600 W Max
	Car Input	12 V/24 V=200 W Max
	Solar Panel Input	16.5—28 V=200 W Max
	AC Output (× 2)	120 V~5 A 60 Hz 600 W Max (inverter mode, pure sine wave) / 120 V~ 60 Hz 6 A Max. (bypass mode)
	Car Outlet	13.6 V=10 A 136 W Max

* It may slightly differ from the actual value due to different measuring tools and methods.

10 Troubleshooting

Error code	Possible causes	Solution
E01	1. Continuously charge and discharge battery 2. High ambient temperature	1. Battery over temperature happens, and please let the battery stand and wait it to cool down. 2. Error will be solved after the temperature recovers to normal level.
E02	Low ambient temperature	Error will be solved after the temperature recovers to normal level.
E03	Battery hasn't been charged for a long time	Charge immediately, and error will be solved after the battery voltage recovers to normal level.
E04	1. Communication wire error 2. Battery is damaged	1. Power off the device and check battery connection. 2. Restart device 3. If the error remains, the battery may be damages.
E05		
E06	1. High air inlet temperature; Cooling vents are blocked 2. Fan is damaged	1. Let the device stand and wait it to cool down. 2. Check fan and cooling vents. 3. Error will be solved after the temperature recovers to normal level.
E07		
E08	1. Unidentified Solar Panel 2. Solar Panel is normal but hardware electric circuit may face error and the device shall be repaired	1. Confirm whether the specifications of solar panel used is appropriate (16.5—28 V=200 W Max). Error will be solved after unplugging the inappropriate solar panel. 2. In the case of appropriate solar panel, the hardware electric circuit may face error, please connect to after-sales service.
E09	1. AC input error 2. Hardware electric circuit may face error and the device shall be repaired	1. AC input error due to fluctuation of power grid. Error will be solved after cutting off AC charging. 2. If the error remains, there may be something wrong with hardware electric circuit, please connect to the after-sales service.
E10	1. Car outlet overloaded 2. Hardware is damaged and the device shall be repaired	1. Remove the device connected to Car outlet, then the error will be solved by turning off the car outlet manually. Car Outlet can be used normally after being turned on again. 2. If the error remains, try to restart the device. If problems remains after restart, please connect to after-sales service to repair the Car Outlet.
E11	1. USB outlet load abnormal 2. Hardware is damaged and the device shall be repaired 3. Overload	1. Error will be solved automatically 5s after the device connected to USB is removed. 2. If the error remains, try to restart the device. If problems remains after restart, please connect to after-sales service to repair.

Error code	Possible causes	Solution
E12	1. High power appliance is connected into AC Outlet 2. Hardware is damaged and the device shall be repaired	1. Error will be solved by turning off the AC Outlet manually, 5s after removing the device connected to AC Outlet. 2. If the error remains, try to restart the device. If problems remains after restart, please connect to after-sales service to repair hardware.
E13	1. AC Outlet short-circuit 2. Hardware is damaged and the device shall be repaired	
E14	Inverter is damaged	
E15	1. Battery hasn't been charged for a long time and the voltage is too low 2. Battery cell faces quality problems or is damaged due to long-time use	1. Error will be solved by letting the device stand and try to restart it. 2. If the error remains, please connect to after-sales service to repair the battery.
E16	Hardware error	Remove all devices connected to the power station and restart it. If the error remains, please connect to after-sales service to repair.

* For the error code from E09 to E16, if the error code still exists after operating with the above methods, please contact the after-sales service for support.

11 Certification

Federal Communications Commission (FCC) Compliance Statement for USA

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE

This equipment has been tested and found to comply with the limits for a Class B 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:

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

This equipment complies with FCC/IC 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.

Industry Canada (IC) Compliance Statement for Canada

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device. CAN ICES-3 (B)/NMB-3(B).

FCC ID: 2BCKT-CN0002
IC: 31207-CN0002

12 Trademark and Legal Statement

Segway, Rider Design are trademarks of Segway Inc.; App Store® and Apple logo® are registered trademarks of Apple Inc.; The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Segway-Ninebot is under license. Other trademarks and trade names are those of their respective owners.

Due to the constant improvement of products, this manual and the actual products may be slightly different in color, appearance, etc. Actual products shall prevail when there is a discrepancy between the actual products and the manual.

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Legal Statement

1. Before using the Segway Portable Power Station ("Product"), please carefully read the user manual to ensure proper usage after full comprehension. After reading, please keep the user manual safely for future reference. Failure to operate this product correctly may result in severe personal injuries to yourself or others, as well as product damage and property loss.
2. By using the Product, it is deemed that you fully understand, acknowledge, and accept all the terms and contents of this document. The user undertakes responsibility for their actions and all consequences arising from the use of the Product. Segway shall not be liable for any claim, liability, and loss related to such consequences if it is due to the user's assumption of risk.
3. Please do not allow individuals who have not carefully read this manual or are unfamiliar with the proper usage and safety precautions of the Product to use it.
4. Upon receiving the Product, please immediately inspect whether the product and its accessories are intact and complete. All accessories must be used as required by the instruction manual.
5. Warning: Any battery performance degradation or inability to function properly caused by the user's failure to use and maintain the battery properly is not covered under Limited Warranty.
6. To the extent permitted by law, Segway reserves the right to provide the final interpretation and explanation of this statement.

This Legal Statement shall be governed by the laws of the state where your Product is installed, except to the extent inconsistent with or pre-empted by federal law. Segway shall not be liable for any claims, liabilities, or losses resulting from the consumer's violation of the above statement.

You may choose to accept the above terms and use the product accordingly, or proceed with the return process according to the Limited Warranty. When returning the Product, please ensure the Product and packaging are intact to avoid affecting resale.

If you intend to resell or gift the Product, please remember to include this legal statement as it is an integral part of the Product.

If you have any questions or need assistance, Segway is pleased to be at your service.

Once again, we thank you for choosing and trusting our Product.