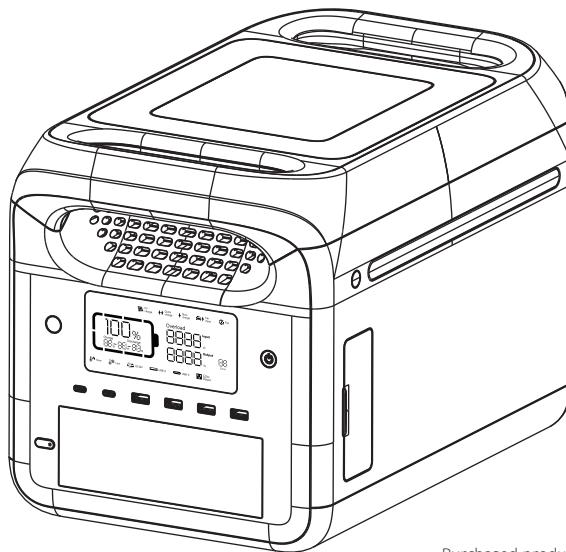


Owner's Manual

1800W Lithium-Ion Power Station

Model:
GC1800L



Purchased product
may differ from image.

Français 17

EATON
Powering Business Worldwide

Important Safety Instructions



SAVE THESE INSTRUCTIONS!

This manual contains important instructions and warnings that should be followed during the installation, operation and storage of this power station.

1.1 General Safety Warnings

- Do not operate a power station near a heat source, such as fire or heater.
- Do not put the power station in contact with any liquid.
- Do not use the power station in a strong electrostatic or strong magnetic field environment.
- Do not disassemble the power station in any way or pierce it with a sharp object.
- Do not short the power station with wire or other metal objects.
- Do not step on, sit or climb on the power station.
- Use only approved parts and accessories. Contact Eaton for purchase information.
- When the using power station, follow the operating temperature defined in **section 9**. Specifications of this manual. If the temperature is too high, the battery may catch fire or even explode. If the temperature is too low, power station performance will be seriously impaired, even normal use will be impacted.
- Do not stop the fan by force or expose the power station in an unventilated or dusty environment when the device is in operation.
- Do not block the ventilation openings of the power station.
- Avoid collisions, drops and violent vibrations. In the event of a severe impact, shut down the power supply immediately. Secure the power station firmly during transportation to avoid vibration and impact.
- If power station falls into water accidentally, place it in a safe and wide area and stay away from it until it is dry. Once dry, the power station cannot be used again. Dispose of the power station according to local codes. If the power station is on fire, use fire extinguishing equipment in the recommended order: water or water mist, sand, fire blanket, dry powder, carbon dioxide fire extinguisher.
- If there is dirt, use a dry cloth to wipe clean.
- Place the power station carefully to prevent damage. If the power station is tipped over and seriously damaged, turn off immediately and place the battery in a spacious place and keep it away from flammable materials and people, then dispose in accordance with the requirements of local laws and regulations.
- Keep the power station out of the reach of children and pets.
- Keep the power station in a dry and ventilated place.
- In humid environments (seaside, water, etc.), it is recommended to equip the power station with a moisture-proof bag. If water is found inside the product, do not use/start it again. Please take countermeasures to prevent electric shock before touching the power station. Put it in a safe and waterproof open area and contact customer service immediately.
- It is not recommended to use the power station to supply power for safety-related emergency medical equipment, including but not limited to: medical grade breathing machine (hospital version CPAP: Continuous Positive Airway Pressure), artificial lung (ECMO, Extracorporeal Membrane Oxygenation). It can be used to supply power for home version CPAP at home and does not require continuous professional monitoring. Follow your doctor's advice and consult the manufacturer for any restrictions on the use of the device. For general medical equipment, pay attention to the power condition to ensure that power does not run out.
- Power supplies will inevitably generate electromagnetic fields when in use, which may affect the implantable medical devices or normal operation of personal medical devices, such as pacemakers, cochlear implants, hearing aides, defibrillators, etc. If any of these medical devices are used, first consult the manufacturer about the restrictions on the use to ensure the power station is operating at a safe distance from implanted medical devices.

Important Safety Instructions



- When the power supply is connected to the refrigerator load, in the conventional mode, the power fluctuation property of the refrigerator may cause the power supply to shut down automatically. It is recommended that for refrigerators storing medicines, vaccines or other high-value items, when connecting to the power supply product, please long press and hold the light button to turn on "Never Off" state to ensure continuous power supply. The user should pay attention to the status of the power supply power loss.
- During the push-pull movement of this product, do not place other items on this product.

1.2 Product Disposal

- Conditions permitting, if discarding the power station is required, the device battery must be completely discharged. This product contains batteries which contain hazardous chemicals and are strictly forbidden for disposal in ordinary garbage bins. Please follow local laws and regulations on battery recycling and disposal.
- If the battery cannot be discharged completely due to product failure, do not discard the battery directly in the battery recycling bin. Contact a professional battery recycling company for further disposal.
- The battery will not start if it is over-discharged and must be disposed in accordance with the local laws and regulations on battery recycling and disposal.
- Please recycle Eaton products. The batteries used in this product are lithium-ion batteries. These batteries are highly recyclable. Refer to your local codes for disposal requirements. You can get up-to-date information on recycling the batteries at: [Tripplite.Eaton.com/support/recycling-program/](https://www.tripplite.com/support/recycling-program/).

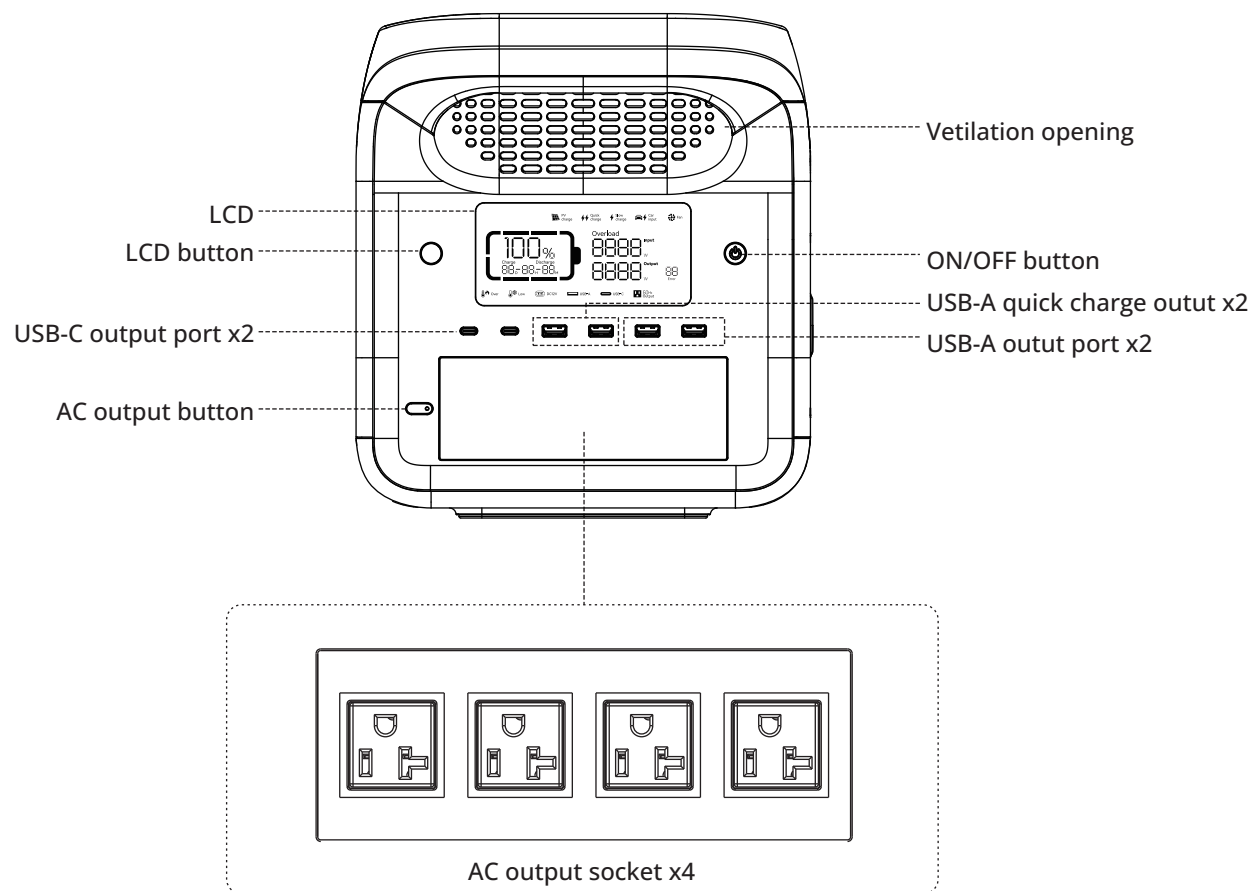
2. Package Includes

- 1800W Lithium-Ion Portable Power Station
- AC Power Cord
- Anti-Slip Gloves
- Owner's Manual

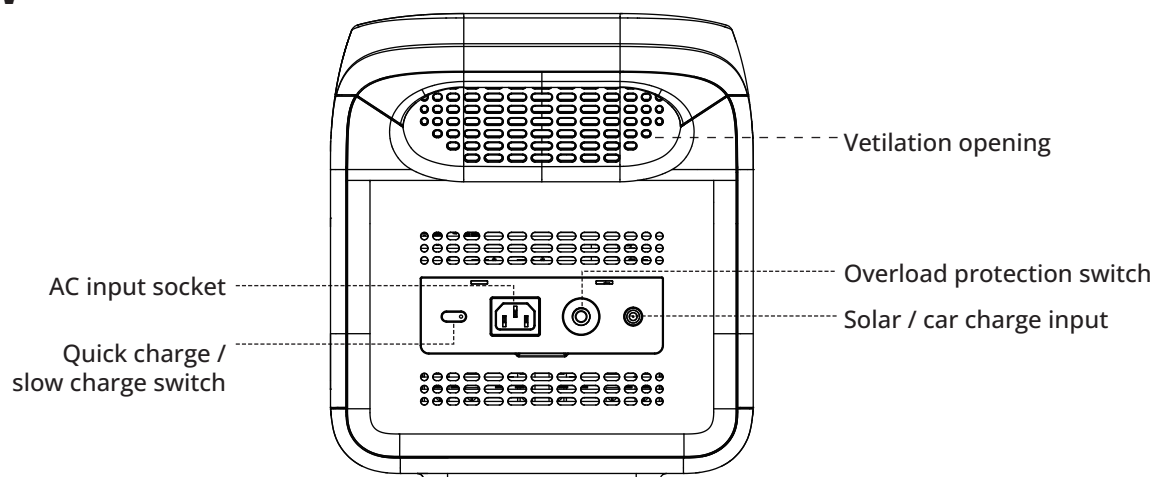
3. Product Overview

3.1 Product Features

Front View

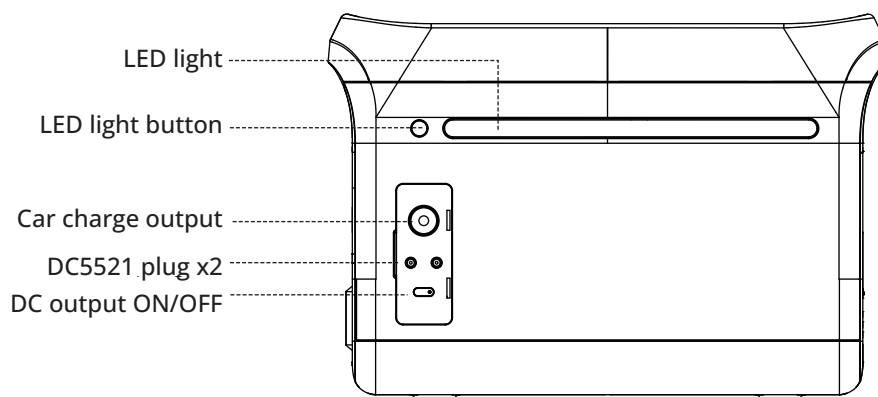


Rear View

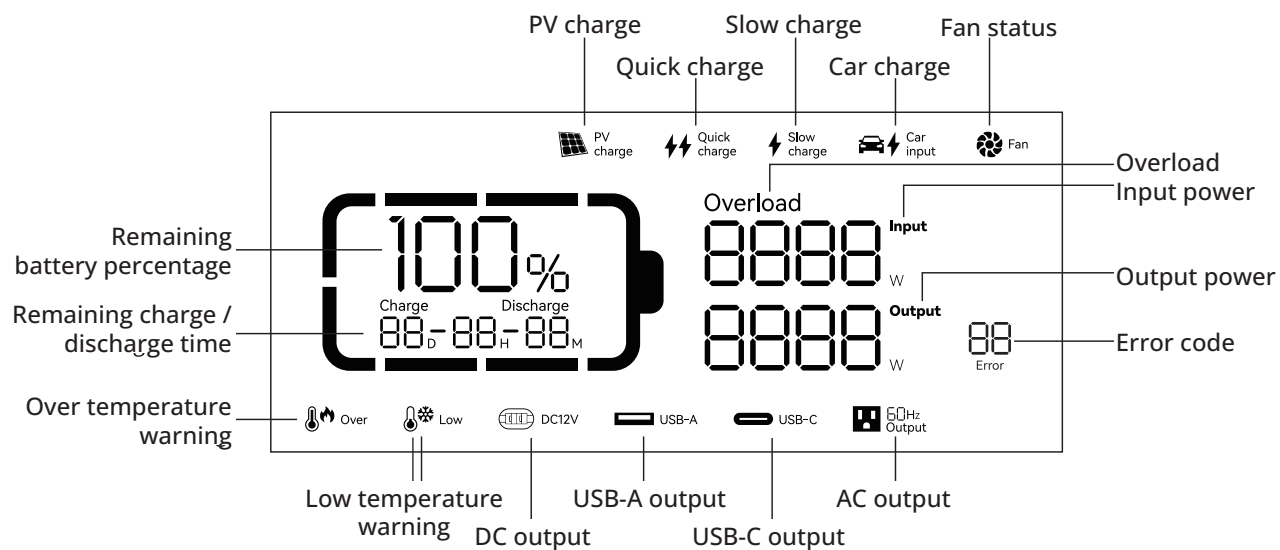


3. Product Overview

Side View



3.2 LCD Panel

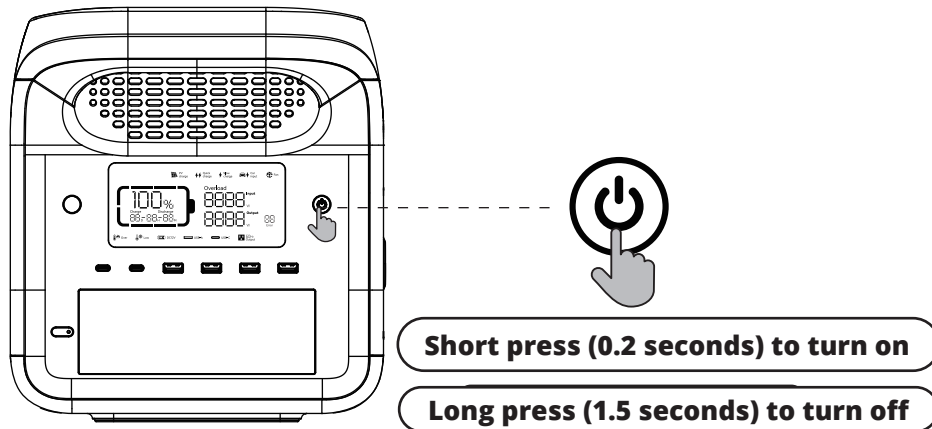




Battery capacity: When power station is being charged, the SOC icon will blink.

4. Operation



4.1 On and Off

Long-pressing the ON/OFF button will restart the power station and clear the fault information.

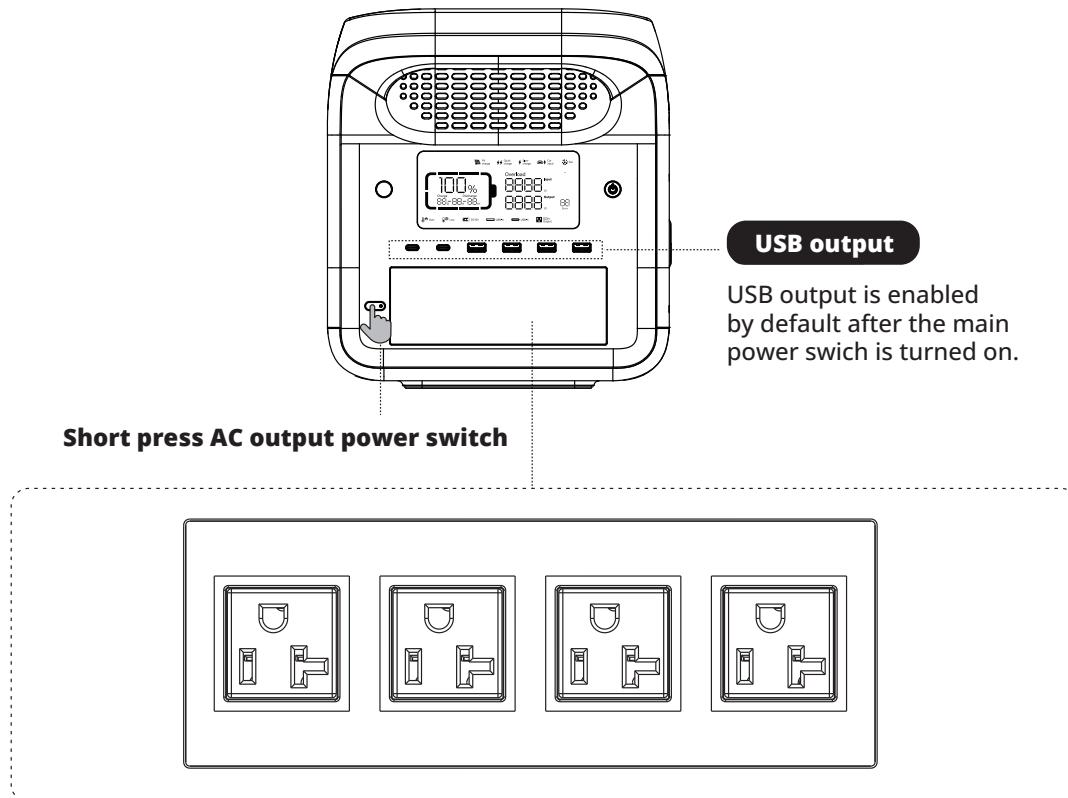


- Press the main power switch to turn on the device. The LCD screen will illuminate and the main power indicator will appear.
- If no operation is performed to the power station for 5 minutes, the power station will enter hibernation state and the LCD will automatically turn off. When there is load change or operation to the power station, the LCD screen will illuminate automatically. Press the main power switch to turn on or turn off the LCD.
- Pressing and holding the main power switch will turn off the power station.
- In normal mode (the power is above 5%), the default standby time is 2 hours. When the AC output switch is not turned on and there is no charge or discharge for 2 hours, the power station will automatically shut down. When the power is 5% or below, the power station will enter low-power mode. In the case of no charge or discharge, the power station will adjust the standby time according to the power and automatically shut down.
- In normal mode, long-press the LED light button to exit the automatic shutdown setting, and the battery icon  will flash. Long-press again to enter the automatic shutdown setting and the battery icon  will not flash.



Notes:

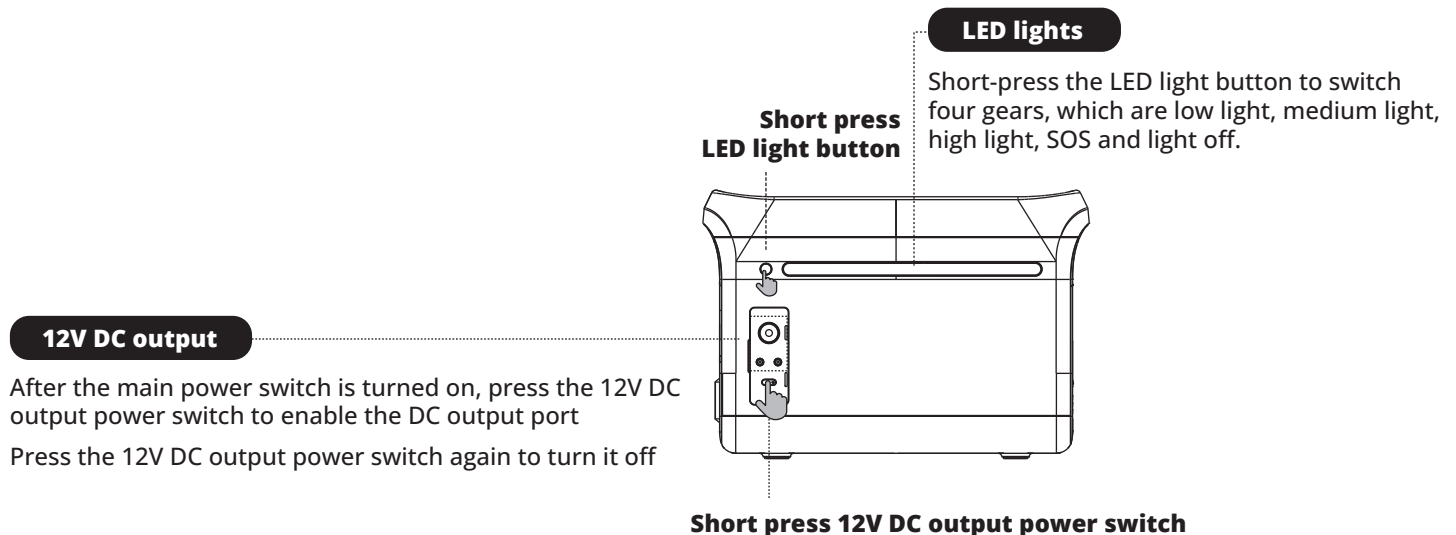
- The automatic shutdown setting protects the battery from low power. Exiting this setting may damage the battery life, so use with caution.
- When there is no AC input, long-press the AC output button to switch the AC off-grid output frequency ( 50Hz Output /  60Hz Output). When long-pressing two seconds to switch, the AC output icon will flash three times to indicate successful switching.

4. Operation



4.2 AC Output

- After ensuring the main power is turned on, short-press the AC output power switch to turn on the AC output. Short-press the AC output power switch again to turn it off.
 - The default standby time of the AC output port is 1 hour. After 1 hour without any load on the AC output port of the power station, the AC output power will automatically turn off. In normal mode, when long-pressing the LED light button, the AC output power switch can exit the automatic shutdown setting and the battery icon  will flash. Long-pressing again will enter the automatic shutdown setting and the battery icon  will not flash.
 - Long-press the LED light button to exit the AC automatic shutdown setting.
- Note:** This applies to AC equipment below 10W and pulse working equipment (refrigerators, etc.).
- When the AC output is not in use, turn it off to save power.



4. Operation

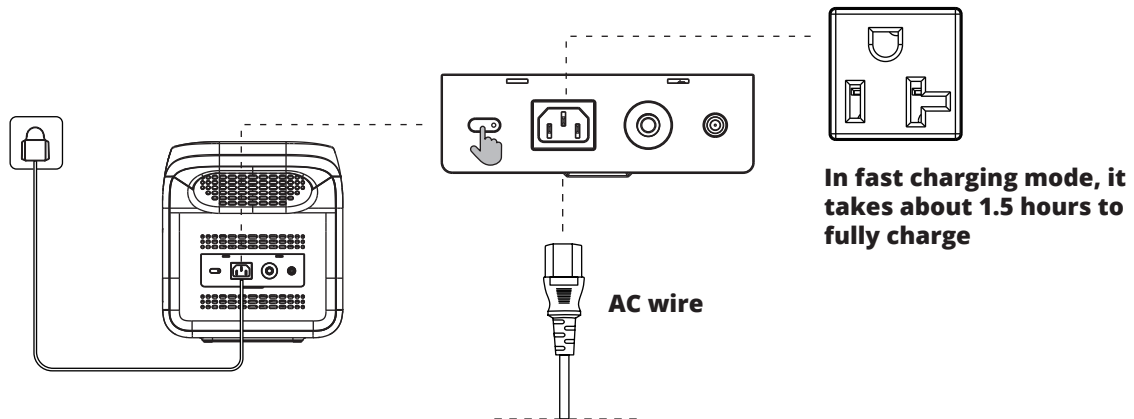
4.3 DC Output

- Once the main power switch is turned on, press the 12V DC output power switch to enable the DC output port.
- Press the 12V DC output power switch again to turn it off.
- When the 12V DC output power switch is turned on, the power station will not shut down automatically.

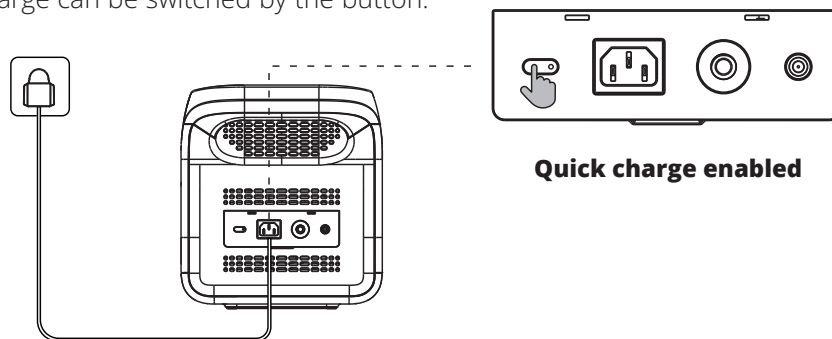
5. Charging

5.1 AC Charging

Quick charging technology is designed for AC charging. You can control the charging power via the AC charging speed switch. The slow charge mode is on by default when the power station is turned on and can be switched to quick charge mode by pressing the button. If the current is continuously higher than 20A, the charging input port will start the self-protection function and the charging overload protection switch will automatically trip. Press the charge overload protection switch to restore charging after confirming no fault.



Quick charge and slow charge can be switched by the button.

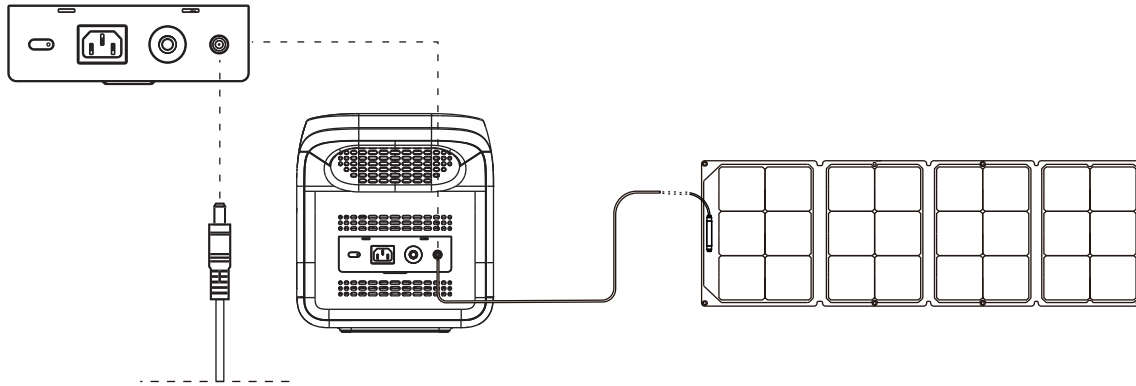


Use standard AC charging cable for fast charging. AC charging cable should plug directly into a 12A (or above) wall-mounted socket. We take no responsibilities for any damage caused by using unofficial AC charging cable and other failures to follow instructions.

5. Charging

5.2 PV Charging

Users can attach dual solar panels to charge the power station.



- Please follow the solar panels' user documentation.
- Before connecting the solar panel(s), check whether its output voltage is within power station specifications to avoid damage to power station.
- The interface of this power station is DC7909. If an adapter cable from MC4 to DC7909 is needed, one will need to be purchased separately.

5.3 Constant power

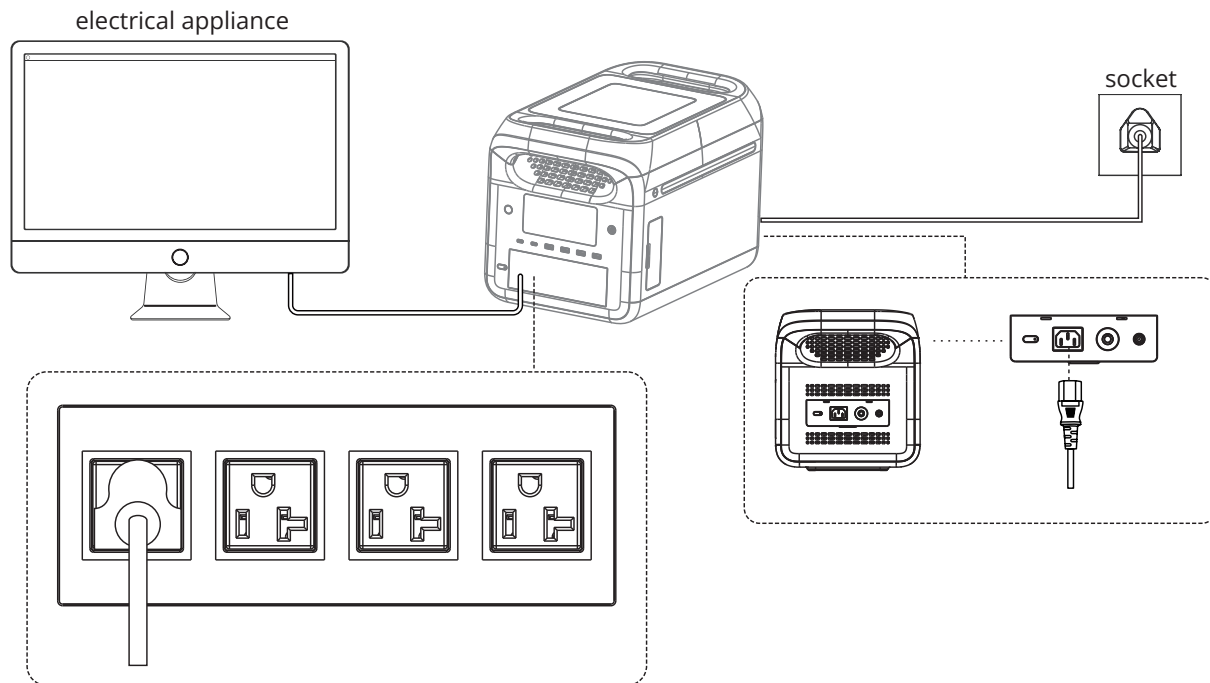
This product has the function of constant power output, which is closed by default. Short press the LCD display button and power button at the same time to enter the setting parameter interface, and short press the LCD display button to cycle through the pages. Page 0 can control the switch of constant power mode. Entering into this page, displaying OFF means constant power off state, and displaying On means constant power on state. In this page, short press the power button to enter the parameter modification mode, at this time, the power percentage icon is flashing, in the parameter modification mode, short press the LCD key to set the constant power mode on or off, short press the power button again to exit the parameter modification mode and confirm the modification of the parameter. In the setting interface, short press LCD display key to turn page to page 1, you can set the restoration of factory settings, the default display in the page is 0. Short press power button to enter the parameter modification mode, by short press LCD display key to select whether factory settings are needed, short press power button when the display value is 1, exit the parameter modification mode and perform the operation of restoring the factory settings, and the restoration of the factory settings jumps to 0. When the operation is completed, press the LCD display button and power button at the same time to exit the setting parameter interface.

Constant power output function is more suitable for heater and motor instead of all electrical equipment. It is not suitable for some electrical appliances with voltage protection (such as precision instruments). Constant power output function application is subject to actual testing.

5. Charging

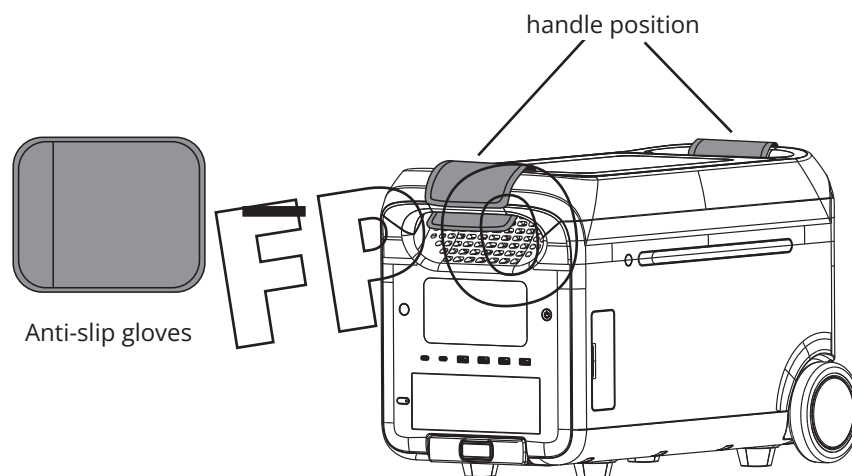
5.4 UPS Function

When the power station is connected to the mains power grid through the AC charging cable, it can use the AC output port to function as a UPS. The power station will be in bypass mode (AC power from the grid, not the battery). If the grid suddenly loses power, the power station will automatically switch to inverter/battery mode within 14 ms. This function is a non-professional UPS function and does not support OmS switching. Do not connect it to devices that require a high-output uninterrupted power supply, such as data servers and workstations, or use it after multiple tests to confirm whether it is compatible. It is recommended to use only one device during use, and do not use multiple devices at the same time to avoid overload protection.



6. Anti-Slip Gloves

Two anti-slip gloves are wrapped in the front and rear handles to prevent mishandling the power station.



7. Troubleshooting

7.1 Frequently Asked Questions

Q. What kind of battery is used?

A. Lithium iron phosphate battery (LiFePO₄).

Q. What equipment can be connected to the AC output ports?

A. The AC output has a high power rating and maximum power, which enables it to supply power to most household appliances. Check the equipment power prior to connecting to make sure the power of all connected equipment is lower than the power station's rated power.

Q. How can I tell how much power supply time is remaining?

A. The power supply time displays in the LCD panel for estimation of equipment with stable power consumption.

Q. How do I know the power station is charging?

A. When charging, the power station's LCD will display the remaining charging time. The SOC will blink and input power will display.

Q. How do I clean the power station?

A. Clean the unit with a dry, soft and clean cloth or tissue.










Q. How do I store the power station?

A. Turn it off and keep it in a dry and ventilated place. Do not expose the power station near water. For long-term storage, charge and discharge every 3 months (i.e. discharge to 0%, charge to 100%, then discharge to 48%-52%).





















7.2 Error Messages and Solutions













If a warning occurs during the use of this product and the warning icon still does not disappear after restarting the device, stop using it immediately (do not attempt to charge or discharge). If none of the information below can solve the problem you encounter, contact support.


Icon		Fault Description	Solution
	Error code always on	Serious battery fault	Turn on and off, contact after sales if still not fixed.
	Error code always on	Battery cell voltage difference fault	Auto shutdown, fault will be cleared after reboot.
	Error code always on	BMS voltage fault	
	High temperature icon always on Error code always on	Battery OTP (over temperature protection) fault	
	Low temperature icon always on Error code always on	Battery UTP (under temperature protection) fault	Auto shutdown, temperature recovery enables starting up.
	Error code always on	Over current/short circuit fault	
	High temperature icon always on Error code always on	OTP fault	Auto shutdown, delayed start.
	Error code always on	Pre-charge fault	Auto shutdown, fault will be cleared after reboot.
	Error code always on	Battery under voltage fault	Auto shutdown and charge, contact support if still not fixed after multiple charging failures.

7. Troubleshooting

Icon		Fault Description	Solution
 Error	Error code always on	Abnormal parallelization	Check the connection cable. Contact support if still not fixed. Single power station function is not affected.
 Error	Error code always on	Abnormal INV battery voltage	Auto recover after fault is cleared.
 Error	Error code always on	Grid voltage or frequency fault	The fault is cleared when the grid returns to normal.
 Error	Error code always on	Abnormal INV BUS voltage	Auto recover after fault is cleared.
 Error	Error code always on	Abnormal INV output	
Overload  Error	Overload icon always on Error code always on	INV discharge overload	Remove over-power device. Auto recover after fault is cleared.
Overload  Error	Overload icon always on Error code always on	Charge overload	Auto recover after fault is cleared.
 Error	Error code always on	INV Tz	
 Error	Error code always on	INV input short	Fault will be cleared after reboot.
 Error	Error code always on	INV output short	
 Over  Error	High temperature icon always on Error code always on	MOSFET OTP fault	Auto recover after product is cooled down.
 Error	Error code always on	Fan stop	Turn on and off, contact support if still not fixed.
 Error	Error code always on	Discharge soft start fault	Auto recover after fault is cleared.
 Error	Error code always on	Charge soft start fault	
 Low  Error	Low temperature icon always on Error code always on	MOSFET UTP fault	Turn on and off, contact support if still not fixed.
 Error	Error code always on	DC input hardware over current protection	Remove DC charge, auto recover after connecting DC and turn on.
 Error	Error code always on	DC1 input software over current protection	DC charging stops and will automatically resume after the fault is eliminated.
 Error	Error code always on	Car charger output/DC5521 output Over current protection	

7. Troubleshooting

Icon		Fault Description	Solution
 31 Error	Error code always on	PV output OVP (over voltage protection) fault	Stop PV. Auto recover after fault is cleared.
 32 Error	Error code always on	DC input voltage over voltage protection	Stop DC. Auto recover after fault is cleared.
 33 Error	Error code always on	DC input voltage over voltage protection	Stop DC. Auto recover after fault is cleareddelete
 34 Error	High temperature icon always on Error code always on	Anderson OTP fault	Turn off output, manual recover after fault is cleared.
 35 Error	High temperature icon always on Error code always on	DC1 input over temperature protection	Stop DC1. Auto recover after fault is cleared.
 36 Error	High temperature icon blinks Error code always on	DC2 input over temperature protection	Stop DC2. Auto recover after fault is cleared.
 38 Error	Error code always on	Abnormal communication	Turn on and off, or change operation environment. Contact support if still not fixed.
 39 Error	Error code always on	Abnormal USB	Auto recover after removing abnormal USB.
 40 Error	Error code always on	Abnormal USB-C	Auto recover after removing abnormal USB-C.
 43 Error	Error code always on	The battery voltage is too low. The battery is broken.	Contact after-sales processing.

 37 Error	High temperature icon always on Error code always on	Car charge output OTP fault	Turn off output, manual recover after fault is cleared.
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8. Maintenance

- It is recommended to use or store the power station between 68~86°F (20~30°C) ambient temperature. Keep the power station away from water, heaters and metal parts.
- For long-term storage, charge and discharge every 3 months (i.e. discharge to 0%, charge to 100%, then discharge to 48%-52%.
- For safety, do not store power station with temperature above 113°F (45°C) or below 14°F (-10°C).
- If the capacity is lower than 1%, charge to 60%. Long-term storage with serious power shortage will cause irreversible damage to the battery cell and shorten the service life of the product.
- If the capacity is seriously insufficient and idle time is too long, the product will enter deep sleep mode, and the product can only be used after being charged.
- After charging or discharging this product, you must wait for more than 30 minutes before using it.

9. Specifications

General	
Net Weight	48.5 lb. (22 kg)
Dimensions	17 x 10.6 x 11.8 in. (432 x 270 x 300 mm)
Battery Capacity	1229Wh, 51.2V DC, 24Ah
Wi-Fi	Supported
Output	
AC Output x4 (Inverter Mode)	Pure Sine-Wave, Total 1800W (Peak 3000W), 120V~, 50/60 Hz, 15A
AC Output (Bypass Mode)	100-120V~, 60 Hz, 1500W Max., 12A Max.
USB-A1/A2	5V DC 3A; 9V DC 2A; 12V DC 1.5A, 18W Max.
USB-A3/A4	5V DC 2.4A, 12W Max.
USB-C1/C2	5/9/12/15V DC 3A; 20V DC 5A, 100W Max.
Auxiliary Power Outlet*	12.6V DC 10A, 126W Max.
DC5521 Output X2*	12.6V DC 3A
* Auxiliary Power Outlet and DC5521 share power, 126W Max.	
Input	
AC Input Power	1500W Max., 12A
AC Input Voltage	100-120V~60 Hz
PV (Photo-Voltaic/Solar) Charge	13-45V DC 12A, 400W Max.
Input Charging	
AC Charging Power	1200W Max.
PV (Photo-Voltaic/Solar)	400W Max.
AC + PV Charging Power	1200W Max.

9. Specifications

Battery	
Cell Type	Lithium Iron Phosphate Battery (LiFePO4)
Life Cycle	3,000 Cycles
Protection Type	Over-Temperature Protection, Low-Temperature Protection, Over-Discharge Protection, Over-Charge Protection, Over-Load Protection, Short-Circuit Protection, Over-Current Protection
Operating Temperature	
Optimal Operating Temperature	68~86°F (20~30°C)
Discharge Ambient Temperature	-4~113°F (-20~45°C)
Charge Ambient Temperature	32~113°F (0~45°C)
Storage Ambient Temperature	-4°F~113°F (68~86°F preferred) -20~45°C (20°C~30°C preferred)

10. Warranty

2-Year Limited Warranty

We warrant our products to be free from defects in materials and workmanship for a period of two (2) years from the date of initial purchase. Our obligation under this warranty is limited to repairing or replacing (at its sole option) any such defective products. Visit [TrippLite.Eaton.com/support/product-returns](https://www.tripplite.com/support/product-returns) before sending any equipment back for repair. This warranty does not apply to equipment which has been damaged by accident, negligence or misapplication or has been altered or modified in any way.

EXCEPT AS PROVIDED HEREIN, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Some states do not permit limitation or exclusion of implied warranties; therefore, the aforesaid limitation(s) or exclusion(s) may not apply to the purchaser.

EXCEPT AS PROVIDED ABOVE, IN NO EVENT WILL WE BE LIABLE FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. Specifically, we are not liable for any costs, such as lost profits or revenue, loss of equipment, loss of use of equipment, loss of software, loss of data, costs of substitutes, claims by third parties, or otherwise.

Regulatory Compliance Identification Numbers

For the purpose of regulatory compliance certifications and identification, your product has been assigned a unique series number. The series number can be found on the product nameplate label, along with all required approval markings and information. When requesting compliance information for this product, always refer to the series number. The series number should not be confused with the marking name or model number of the product.

Eaton has a policy of continuous improvement. Specifications are subject to change without notice. Photos and illustrations may differ slightly from actual products.



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ISED Statement

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.

2. This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'

appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps

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.

(2) This device must accept any interference received, including interference that may cause undesired operation.

2. 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.