POWEROLOGY

Powerology

Pater II Portable Power Station

SKU: PWGC700GY

Table of Contents

Thank you for choosing our product! We kindly ask that you take a moment to read through this user manual. By following the instructions provided, you will ensure the optimal use of your product and quickly become familiar with its features.

Important Reminder

This product is intended for emergency situations and is not a substitute for the standard AC power supply used by household appliances or digital products.

Schematic View

①	Display screen
②	Lighter output port
③	AC button
④	DC output port
⑤	USB1 output port
⑥	AC output port
⑦	USB2 output port
⑧	Type-C1 output port
⑨	AC input port
⑩	LED light button
⑪	XT60 port
⑫	Type-C2 input port
⑬	AC output port 2
⑭	DC button
⑮	Power on/off
⑯	USB button
⑰	LED light
⑱	Fan hole

Front View
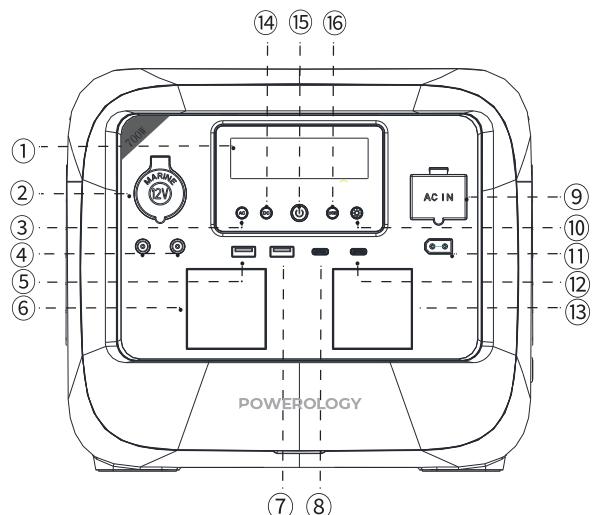
Side View
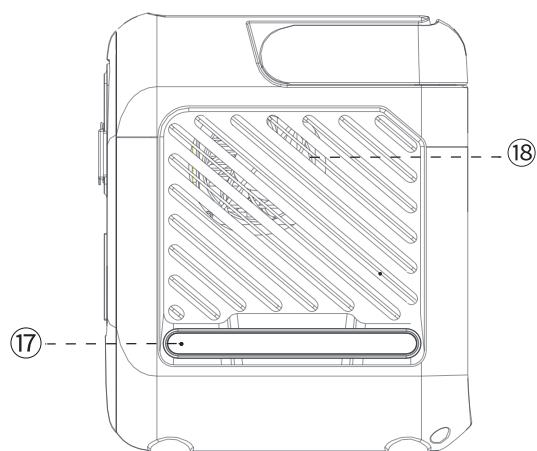
Display Guide
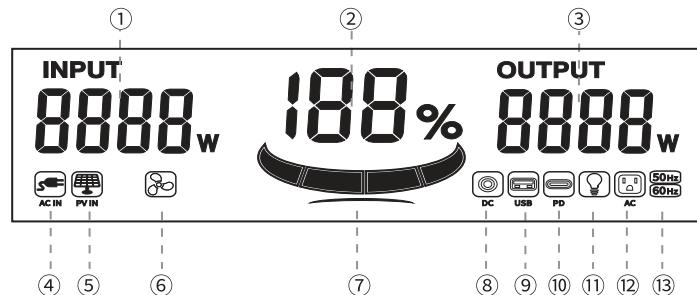
	Description
①	Charging Power Display
②	Battery Percentage Display
③	Output Power Display
④	AC Charging Icon: Lights up when the AC charging process is active.
⑤	Solar Charging Icon: Lights up when the solar charging process is active.
⑥	Fan Icon
⑦	4-Level Battery Display
⑧	DC 12V Output Icon: Lights up when the DC 12V output is active.
⑨	USB Output Icon: Lights up when the USB output is active.
⑩	PD Output Icon: Lights up when the PD output is active.
⑪	LED Light Icon: Lights up when the LED light is turned on.
⑫	AC Output Icon: Lights up when the AC output is active.
⑬	AC Output Frequency: Displays the current AC output frequency.

Application Scenarios

1. The product offers a high-capacity battery, compact size, and lightweight design, making it highly portable and versatile for various usage scenarios.

Long-distance Level   Camping and Picniking   Wilderness Exploration

2. The product features both AC input and output functions, allowing for quick recharging of the device itself and providing emergency power to various devices such as fans, mini refrigerators, light bulbs, mini rice cookers, and more.
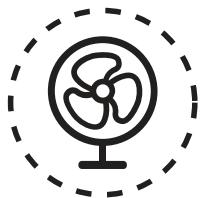
|		
Small Fan	Mini Rice Cooker	Light Bulb
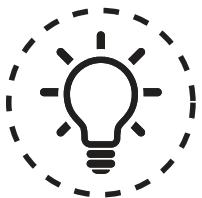
3. The product features a DC output function that provides emergency charging for devices such as smartphones, tablets, digital cameras, laptops, and more. It also includes multiple DC output interfaces, allowing you to charge several digital devices simultaneously.
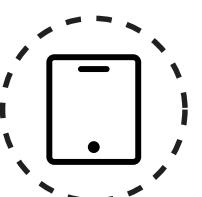
|		
Laptop	Tablet	Smartphone

4. The product features an LED lighting function with high-brightness LEDs, designed for durability and ideal for outdoor activities. The LED light offers multiple modes, including high-brightness lighting, brightness adjustment, strobe, and an SOS distress signal.
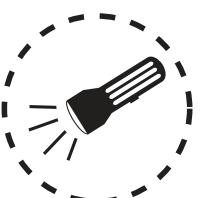
|		
Safe to Use	Emergency Lighting	Outdoor Energy Storage
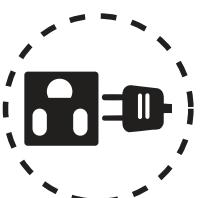
Power On/Off

Press and hold the "Power On/Off Button" for 2 seconds to power on the product. The display screen will light up, showing the current battery level. The fan will perform a self-check and light up the fan icon, then automatically turn off after 3 seconds.

AC Button	DC Button	Power On Off Button	USB Button	LED Light Button
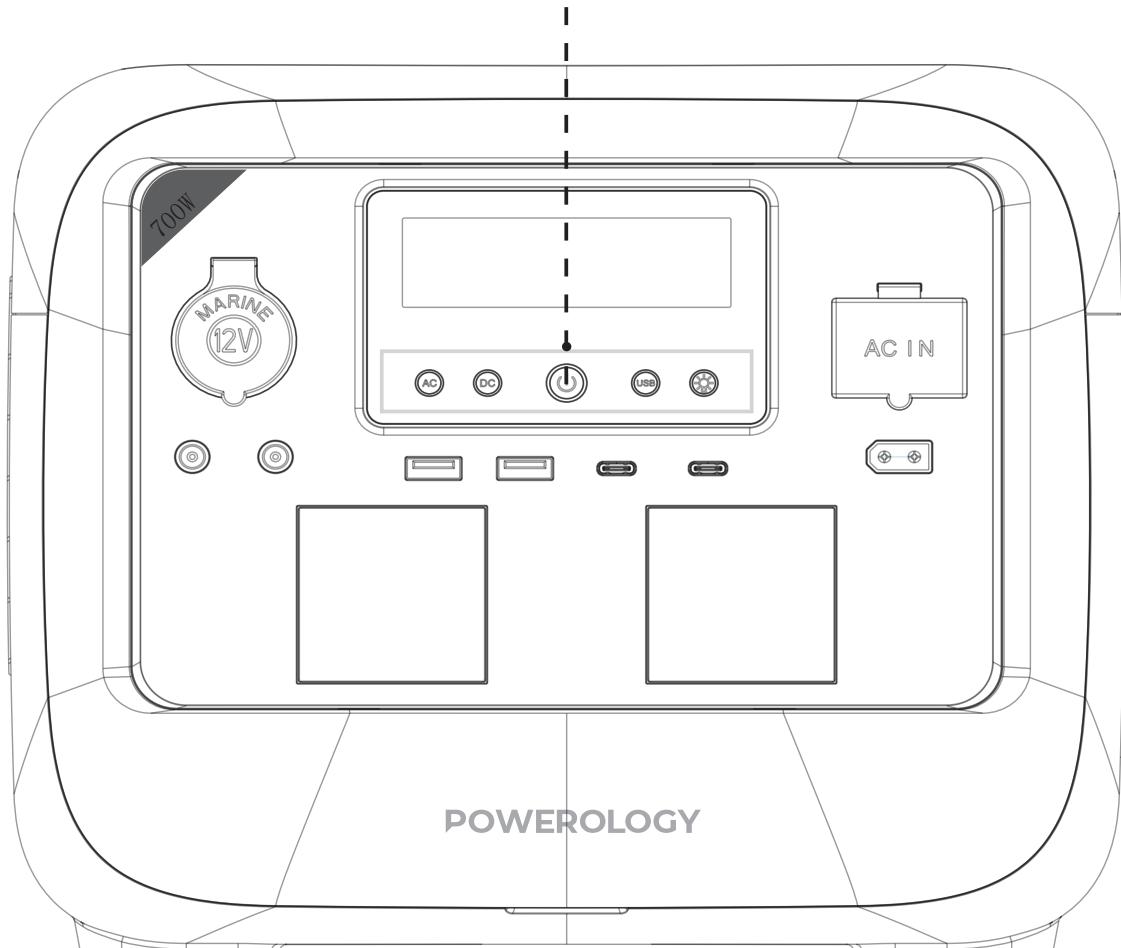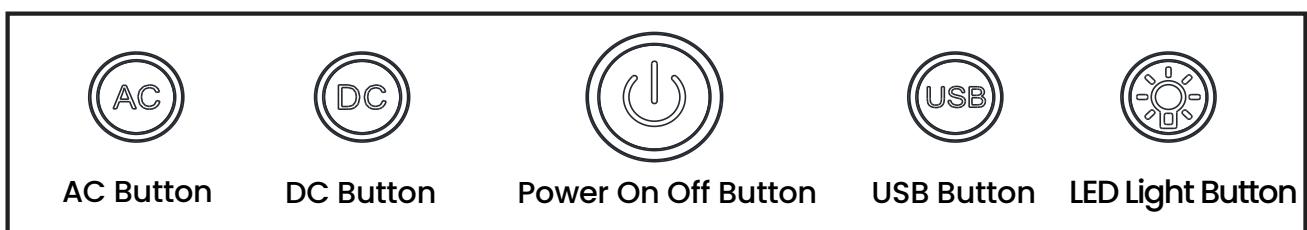
LED Light Operation

After powering on the product, press the "LED Light Control Button" briefly to activate the LED light in a constant-on mode, which will illuminate the LED light icon. While in this mode, press and hold the "LED Light Control Button" to adjust the brightness. To cycle through the light modes (constant-on, low brightness, SOS, flashing, off), press the button briefly.

AC Button   DC Button   Power On Off Button   USB Button   LED Light Button

LED Light
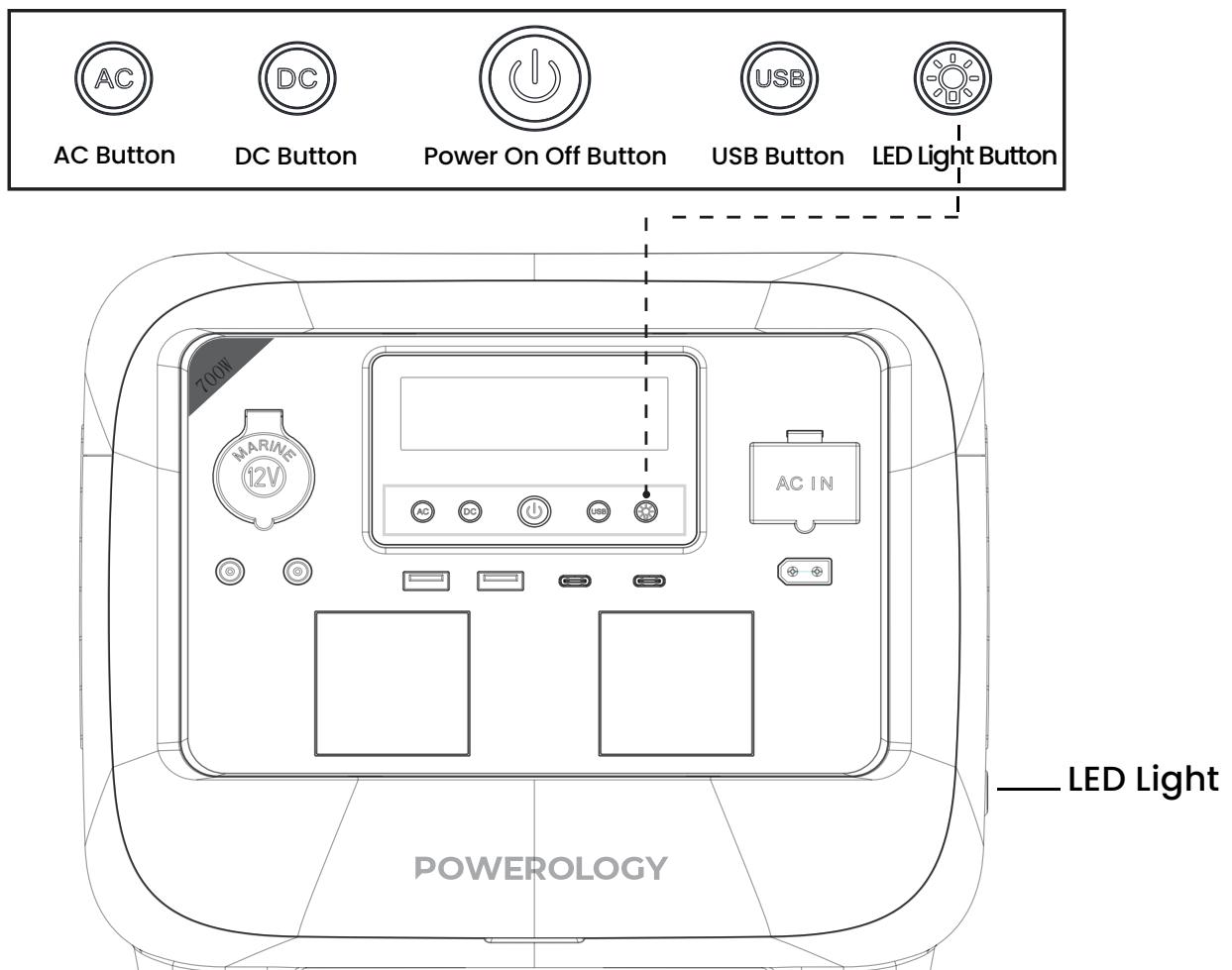
USB Output

1. After turning on the product, briefly press the "USB On/Off Button" to activate the USB output function. The Type-C icon, USB icon, and output power icon will appear on the display.

2. Connect your digital device to the product using the appropriate cable. Once connected, the device will begin charging, and the corresponding power value will be displayed on the screen.

3. When charging multiple devices simultaneously through various output ports, the total output power will be shown on the display.

USB Button

USB Port

Type-C Port

POWEROLOGY
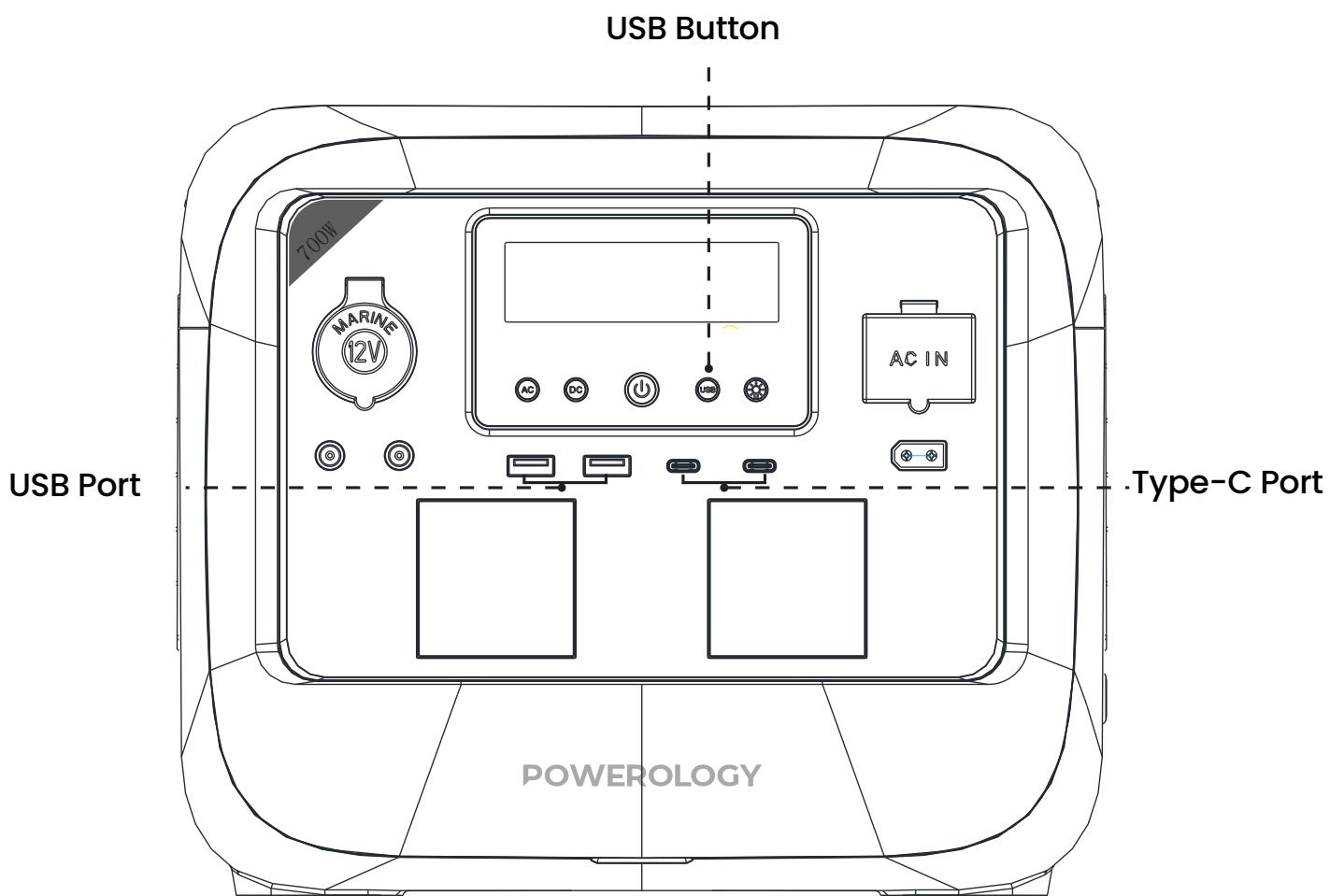
DC and Lighter Output

1. After powering on the product, briefly press the "DC On/Off Button" to activate the DC output function. The DC 12V icon and DC output power icon will illuminate on the screen.

2. Connect your digital device to the product using the appropriate connector to begin charging.

Lighter Output Port

DC On Off Button

DC Output Port

POWEROLOGY
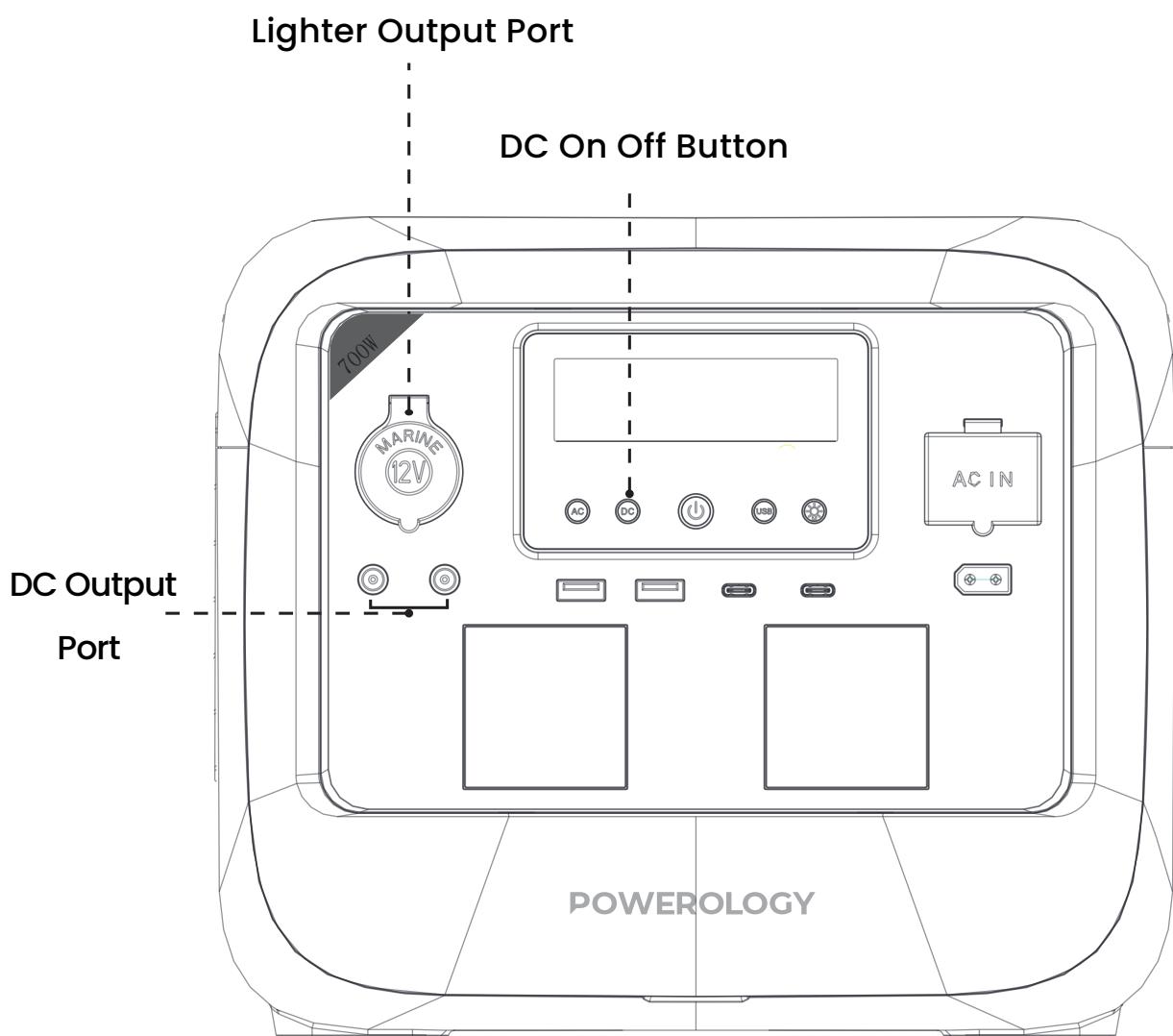
Wireless Charging

1. After powering on the product, briefly press the "DC On/Off Button" to activate the DC output function. The DC 12V icon and DC output power icon will appear on the display.
2. Place your digital device in the center of the product to charge it wirelessly, with a maximum output of 15W.

Wireless Charging Output
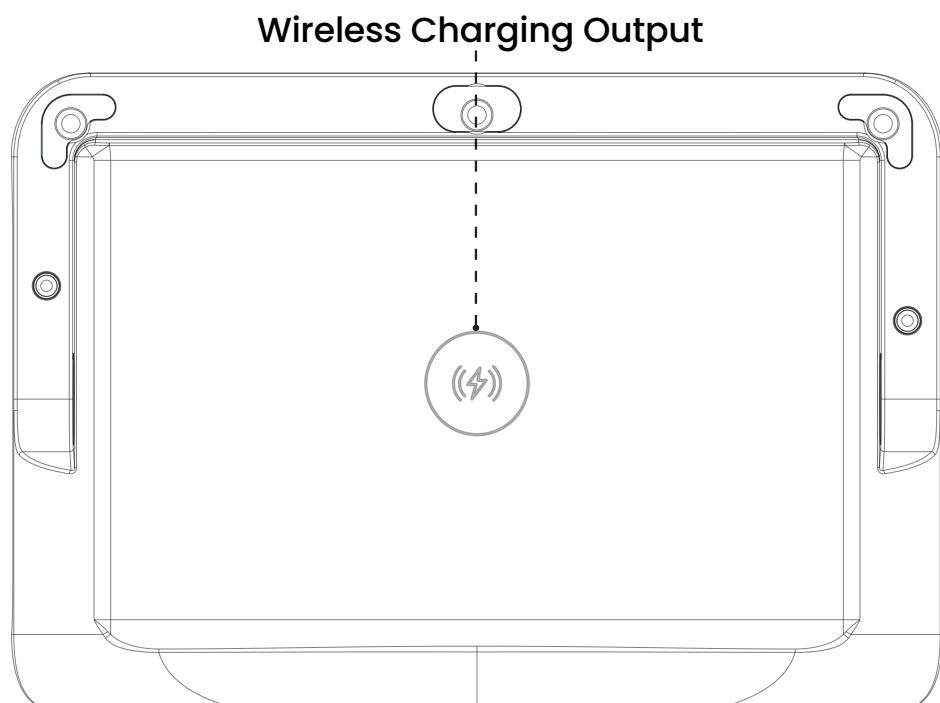
AC Output

1. After turning on the product, press the "AC On/Off Button" briefly to activate the AC output function. The AC output power icon and AC frequency icon will be displayed.
2. Connect the device requiring power into the AC output port. The corresponding power value will be displayed.

AC On Off Button

AC Output Port
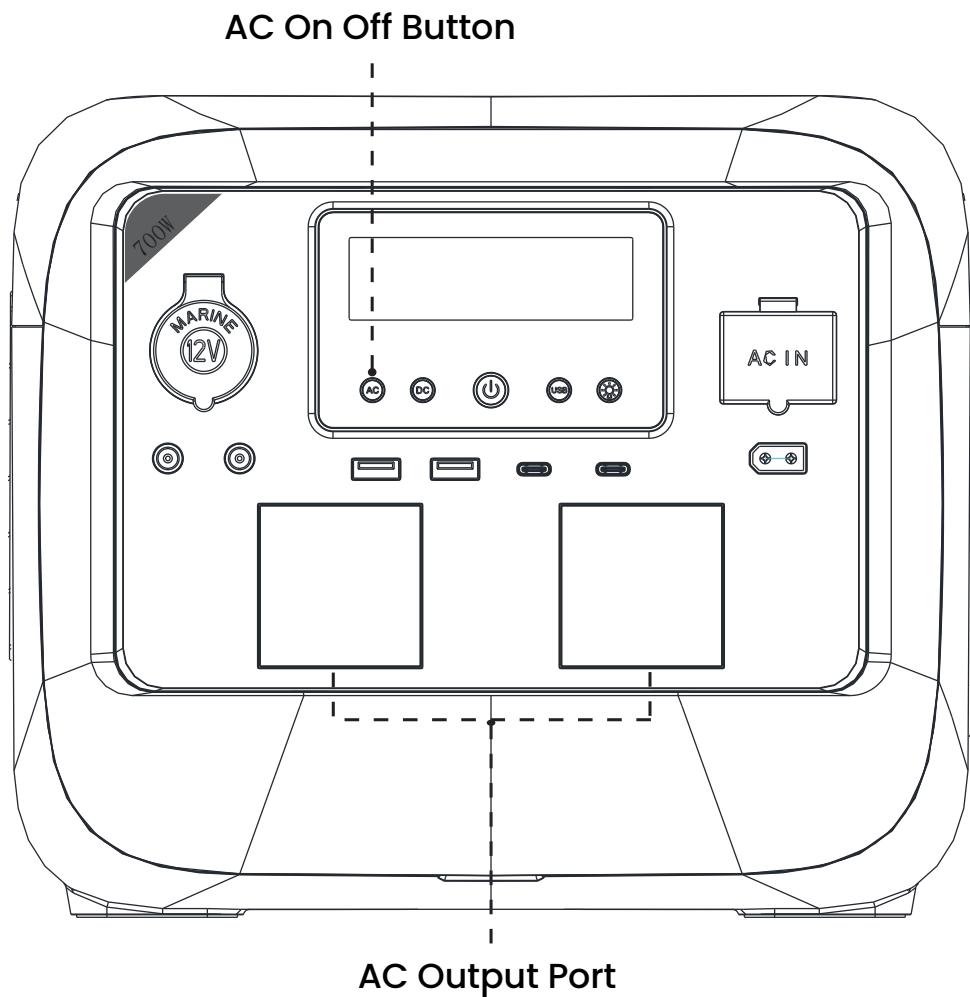
Charging the Power Station

1. Charging via the AC Input Port

1.1 To charge the product, connect the included AC power cord to the AC input port and plug it into the mains. The maximum charging power is 500W. The display will show the current charging power, and the fan will start, displaying the fan icon.

1.2 Silent Charging Mode: While charging, double-click the AC button to activate silent charging mode, which limits the charging power to about 150W. This mode reduces fan noise to its lowest level.

2. Charging via the XT60 Input Port

This product features an XT60 solar input port that supports charging at 12-60V, with a maximum charging power of 350W.

AC Input Port

XT60 Input Port
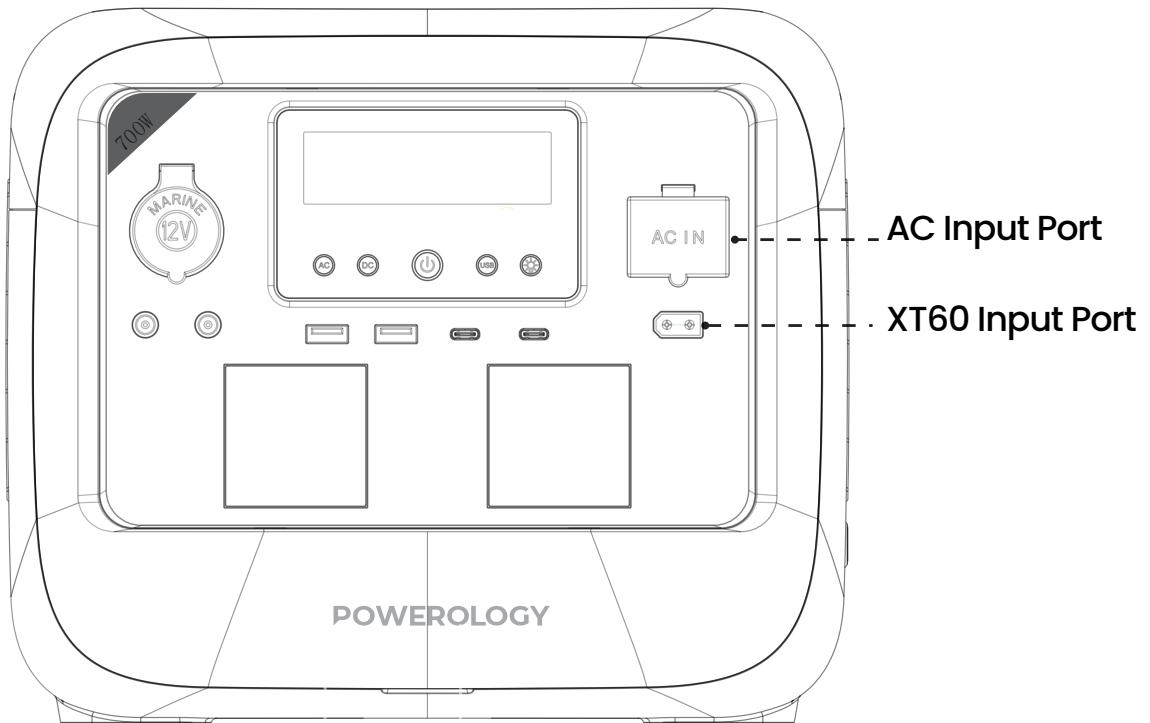
Specifications

Model	PWGC700
Battery Capacity	472.5Wh
Voltage	230V
Frequency	50Hz
MPPT Solar Input	350W max (12-60V)
AC Input	500W
AC Output	700W Rated Power - 1400W Peak Power
USB-A Output	5V/3A, 9V/2A, 12V/1.5A, 18W
USB -A2 Output	5V/2A
USB-C1 Output	5-15V/3A, 20V/5A, PD100W Max
USB-C2 Output	5V/2A, 15W Max
Wireless Output	5W, 7.5W, 10W, 15W
Car Port Output	12V/10A, 120W Max
x5521 2 DC Output	12V/10A
Uninterruptible Power Supply	500W max, 20ms Response Time
LED Light	4W LED Light, with SOS Function
Operating Temperature	-10ºC to 50ºC (Discharge), 0ºC to 40ºC (Charge)
Humidity	0-95 % (Non-condensing)
Weight	7kg
Product Dimension	222× 187 × 266mm

Troubleshooting

Error Code	Description	Instructions
E01	DC Overload/Short Circuit	Resolve the overload, then press the DC button briefly to clear the error code.
E02	DC Output Over-Temperature	The error code will be cleared automatically once the temperature returns to normal.
E03	AC Overload/Short Circuit	Resolve the overload/short circuit, then press the AC button briefly to clear the error code.
E04	AC Output Over-Temperature	The error code will be cleared automatically once the temperature returns to normal.
E07	PD Overload/Short Circuit	Resolve the short circuit/overload, then press the USB button briefly to clear the error code.
E08	USB Overload/Short Circuit	Resolve the short circuit/overload, then press the USB button briefly to clear the error code.
E09	MPPT Charging/Over-Voltage	The error code will be cleared automatically once the voltage returns to normal.
E010	MPPT Charging/Under-Voltage	The error code will be cleared automatically once the voltage returns to normal.
E011	AC Charging Over-Voltage	The error code will be cleared automatically once the voltage returns to normal.
E12	AC Charging Under-Voltage	The error code will be cleared automatically once the voltage returns to normal.
E13	Battery Over-Temperature	The error code will be cleared automatically once the temperature returns to normal.
E14	Battery Under-Temperature	The error code will be cleared automatically once the temperature returns to normal.
E25	MPPT Over-Temperature	The error code will be cleared automatically once the temperature returns to normal.

FAQs

Q1: Will the product shut down automatically when idle?

A1: Yes. After the product is powered on, it will automatically enter sleep mode and shut down after 3 minutes if no outputs are activated. If any output is activated, the product will shut down after 4 hours without output power. To cancel this auto-shutdown function for a single session, press and hold the AC + Power On/Off button for 5 seconds.

Q2: Does the product support screen-off operation?

A2: Yes, it supports screen-off operation. To turn off the screen, double-click the "Power On/Off Button," then click again to turn it back on.

Q3: Does the product support charging and discharging simultaneously?

A3: Yes, the product supports charging and discharging at the same time. When charging via AC, the AC output functions as a bypass.

Q4: Does the product support simultaneous AC and DC charging?

A4: Yes, it supports simultaneous charging from both AC and DC sources. When charging both simultaneously, the AC power output is fixed at 150W.

Q5: How does the fan operate?

A5: The fan automatically adjusts its speed based on the internal temperature and the charging/discharging power. No manual operation is required to activate the fan.

Package Contents
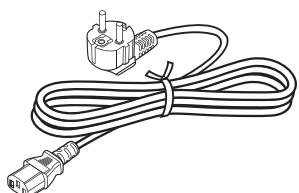
AC Power Cord
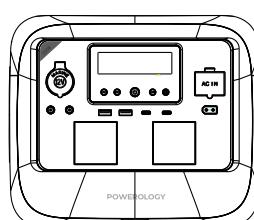
Portable Power Station

Warning

1. When not in use for extended periods, it is recommended to maintain a certain level of battery charge and recharge the product at least once every three months.

2. Slight heating of the device during use or charging is normal and not indicative of a malfunction.

3. It is advised to use the product in a normal temperature environment and keep it away from dampness, high temperatures, and ignition sources.

4. Store the product in a dry place, away from dampness and corrosive materials.

5. Avoid cleaning the product with harsh chemicals, such as soap or cleaning agents.

6. If you notice battery swelling, leakage, or an unusual odor, stop using the product immediately.

7. Be cautious to prevent the product from falling during use.

8. Keep the product out of reach of children and pets. If children need to use the portable power station, parents should operate it according to the user manual.

9. Do not dispose of or burn the used portable power station indiscriminately. Please protect the environment.

Disposal

This product must not be disposed of as unsorted household waste. It is important to separate such waste for proper treatment and recycling, in compliance with local waste management regulations.

Warranty

Products that you buy directly from our **Powerology** website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our **Powerology** website or store. If **Powerology** products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website**powerology.me/warranty** and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check:
powerology.me/warranty

Contact Us

If you have any questions about this Privacy Policy, please contact us at: **hey@powerology.me**
Website: **powerology.me**
Instagram: **powerology_official**
Facebook: **powerology.ME**