



Powerology

Pater I Portable Power Station

SKU: PWGC300GY

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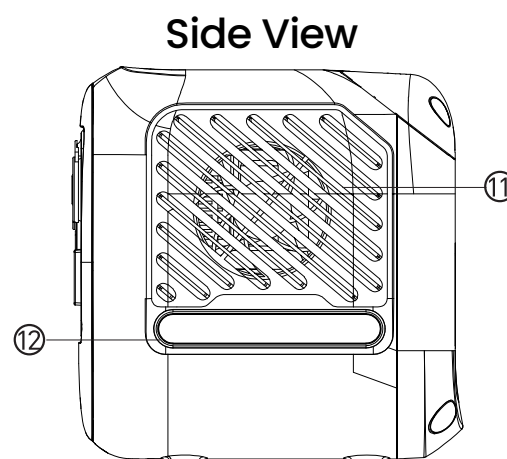
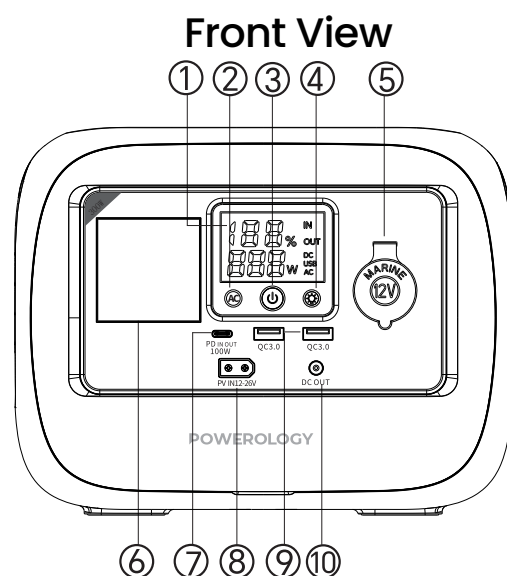
Thank you for choosing our product. Please read this user manual carefully and follow the instructions to ensure proper use of the product. This will help you become familiar with it quickly and easily.

Important Reminder

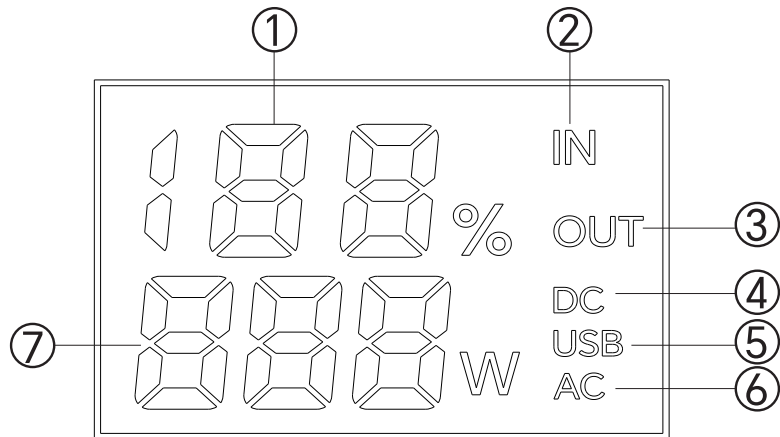
This product is intended for emergency situations and is not a substitute for the standard AC power supply used by household appliances or digital products.

Schematic View

①	Display screen
②	AC Power Button
③	Power Button
④	LED light button
⑤	Lighter Port
⑥	AC output port
⑦	Type-C Input/Output Port
⑧	XT60 port
⑨	USB output ports
⑩	DC output port
⑪	Fan hole
⑫	LED light



Display Guide



Display Icon	
①	Battery Level Indicator
②	Input Indicator (IN)
③	Output Indicator (OUT)
④	DC Mode Indicator
⑤	USB Mode Indicator
⑥	AC Mode Indicator
⑦	Power Output Indicator

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

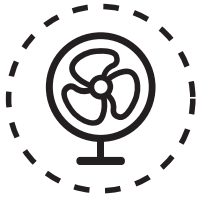


Camping and Picniking



Wilderness Exploration

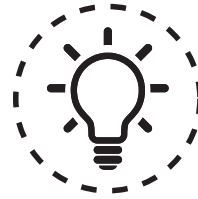
2. The product features both AC input and output functions, allowing for quick recharging of the device itself and providing emergency power to various devices such as fans, mini refrigerators, light bulbs, mini rice cookers, and more.



Small Fan



Mini Rice Cooker

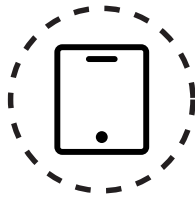


Light Bulb

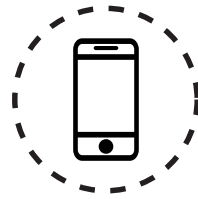
3. The product features a DC output function that provides emergency charging for devices such as smartphones, tablets, digital cameras, laptops, and more. It also includes multiple DC output interfaces, allowing you to charge several digital devices simultaneously.



Laptop



Tablet

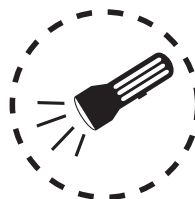


Smartphone

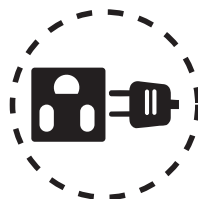
4. The product features an LED lighting function with high-brightness LEDs, designed for durability and ideal for outdoor activities. The LED light offers multiple modes, including high-brightness lighting, brightness adjustment, strobe, and an SOS distress signal.



Safe to Use



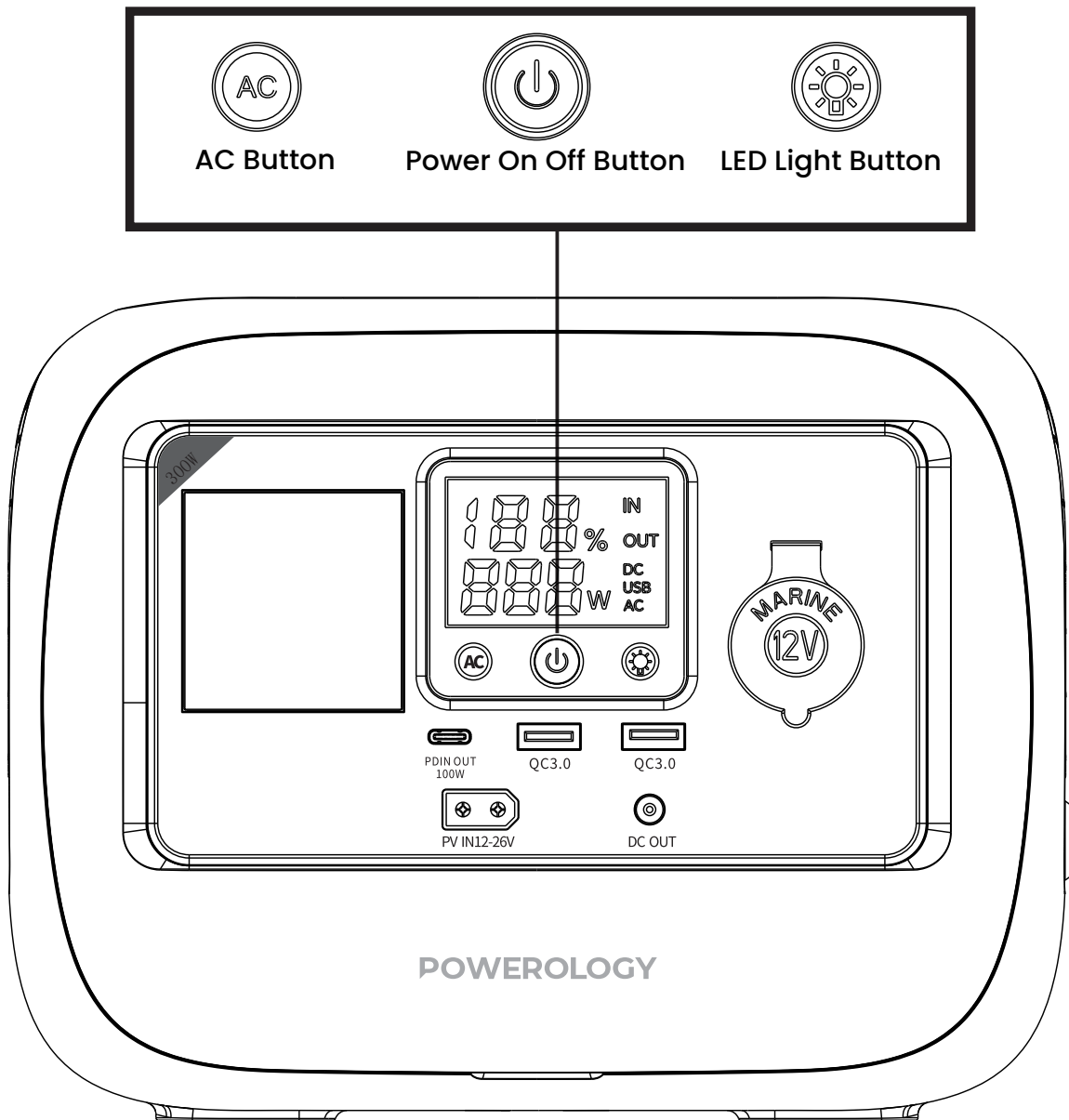
Emergency Lighting



Outdoor Energy
Storage

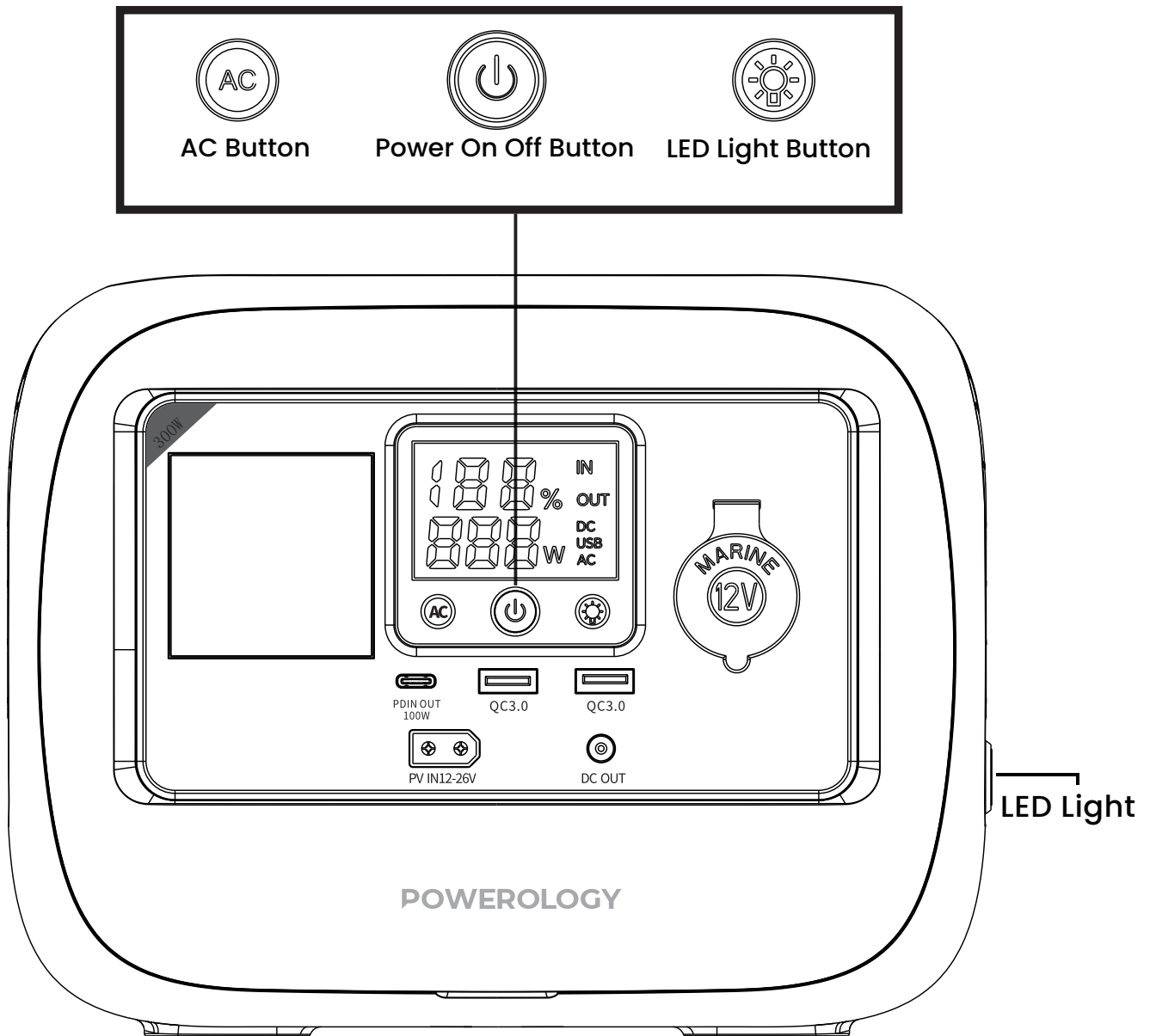
Power On/Off

Press and hold the Power Button for 3 seconds to turn on the device. The display will show the battery level and activate the DC/USB modes. The device will automatically power off after 4 hours if no load is detected.



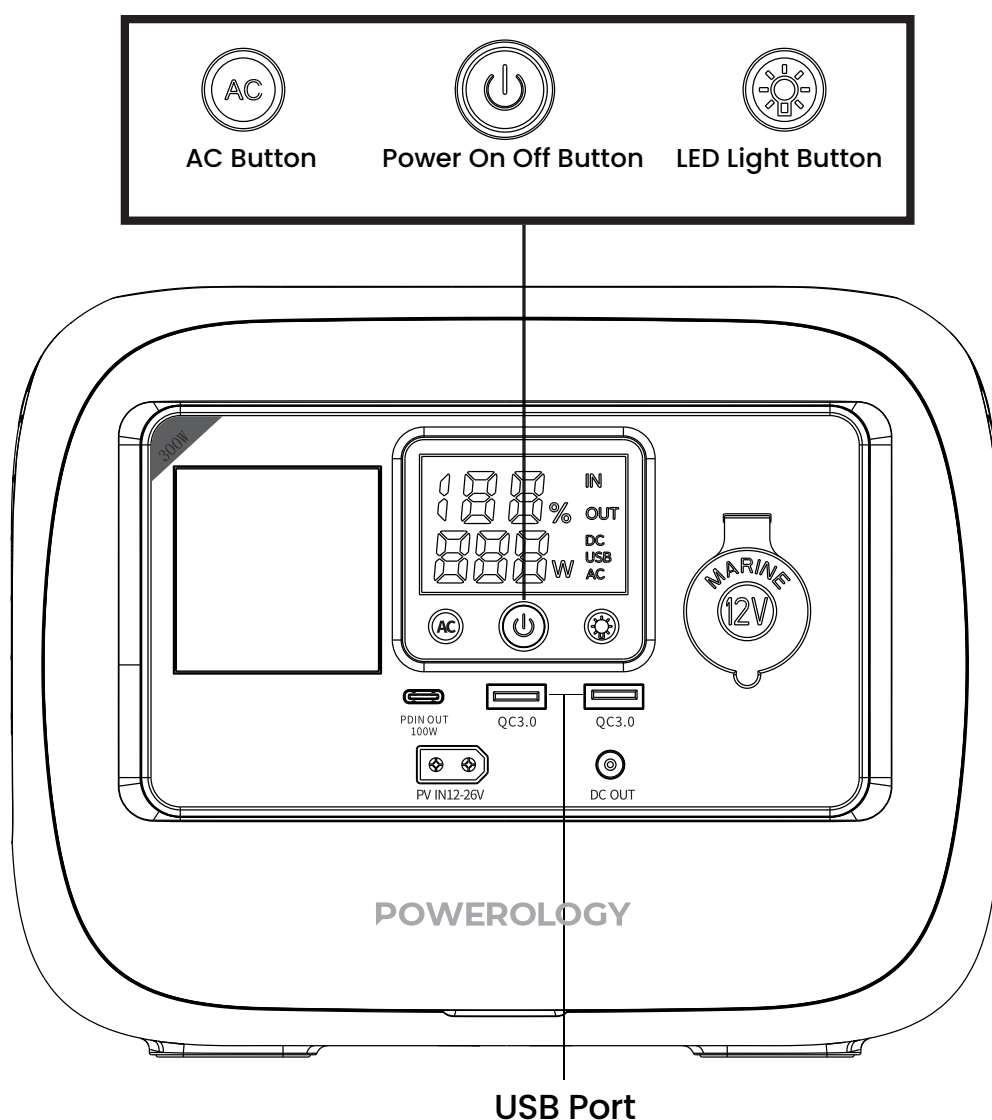
LED Light Operation

Press the LED Button once to turn the light on. Press and hold to adjust the brightness. Press again to cycle through the modes: constant light, dim, SOS, strobe, and off.



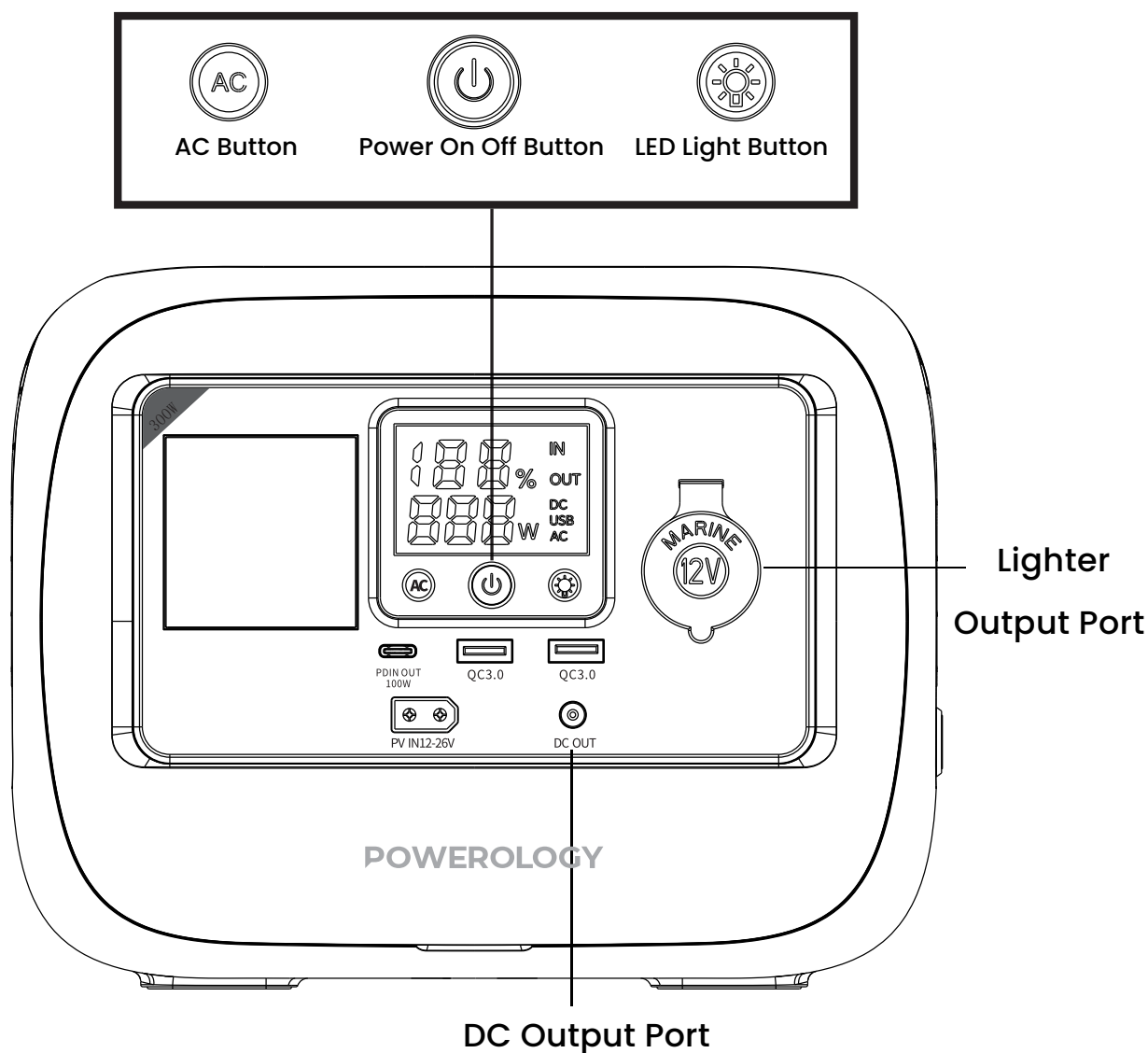
USB Output

1. USB ports are activated when the device is powered on, as indicated by the USB icon.
2. Connect devices via USB cables. The output power will be displayed on the screen.
3. The USB port supports plug and play functionality. Fault code E08 will appear for USB overload or short circuit. Press the Power Button to reset.
4. USB1 and USB2 share a single circuit with a maximum combined output of 15W.
5. When there is output through the USB port, the "out" icon will light up. If there is no output, the icon will turn off.



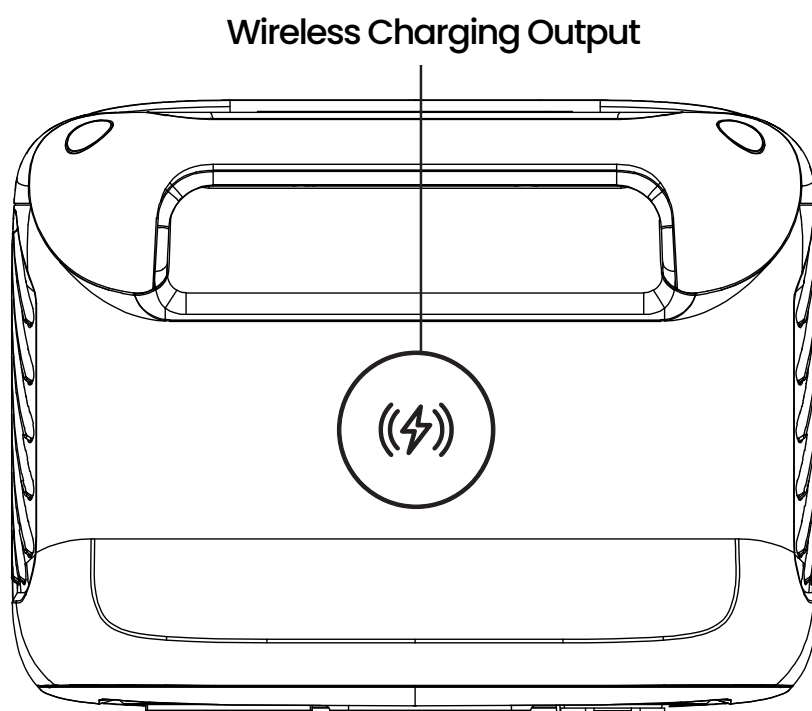
DC and Lighter Output

1. DC output is active when the device is on, as indicated by the DC icon.
2. Connect compatible devices to the DC or cigarette lighter port (max. 120W). Fault code E02 will appear for DC overload or short circuit. Press the Power Button to reset.
3. The DC5521 and cigarette lighter ports share a single circuit with a maximum total output of 120W.
4. When there is output through the DC5521 or cigarette lighter port, the "out" icon will light up. If there is no output, the icon will turn off.



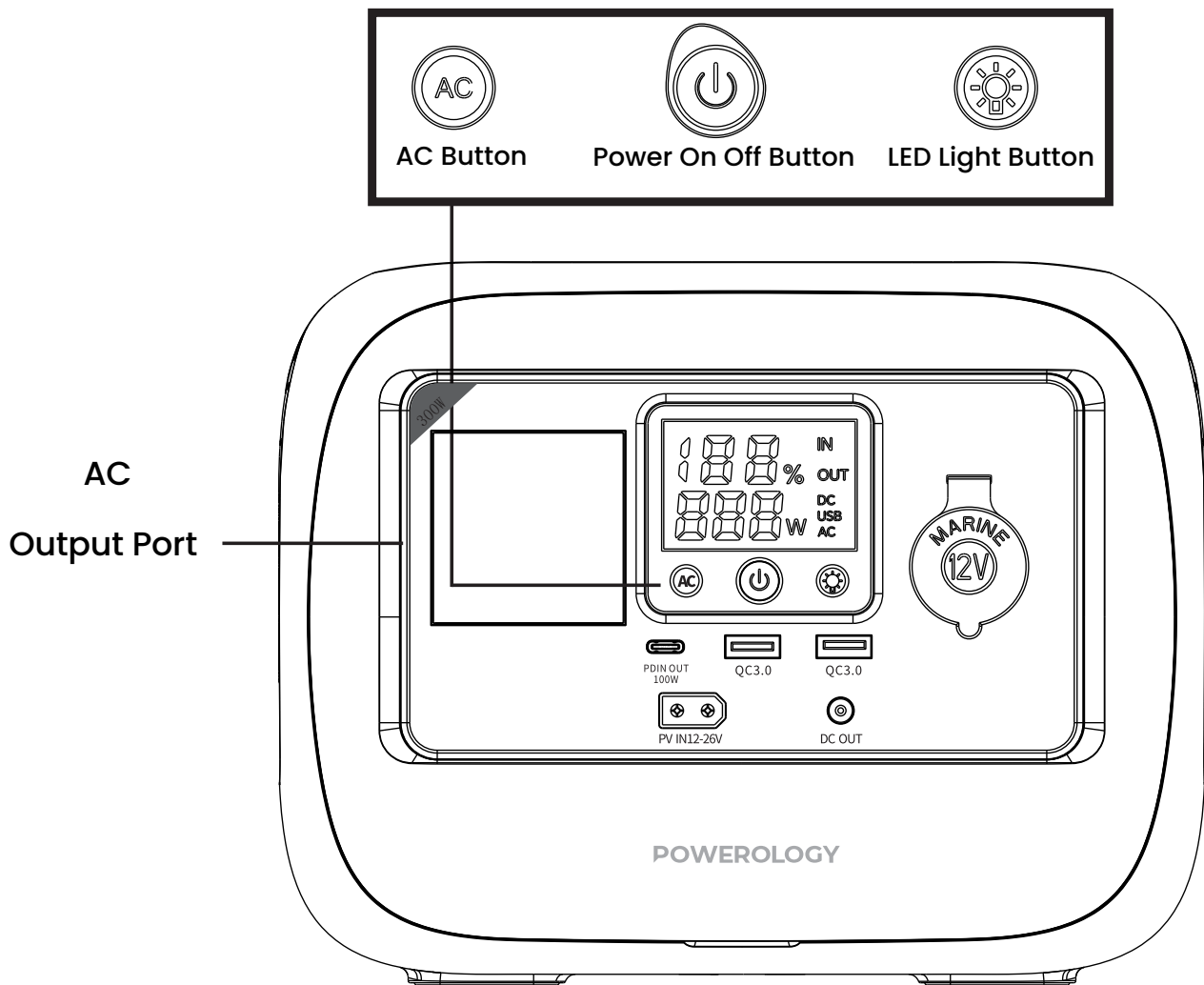
Wireless Charging

1. After the product is turned on, press the "DC On/Off Button" briefly to activate the DC output function. The DC 12V icon and the DC output power icon will appear on the screen.
2. Place your digital device in the middle area on top of the machine to begin charging. The wireless charging function supports a maximum power of 15W.



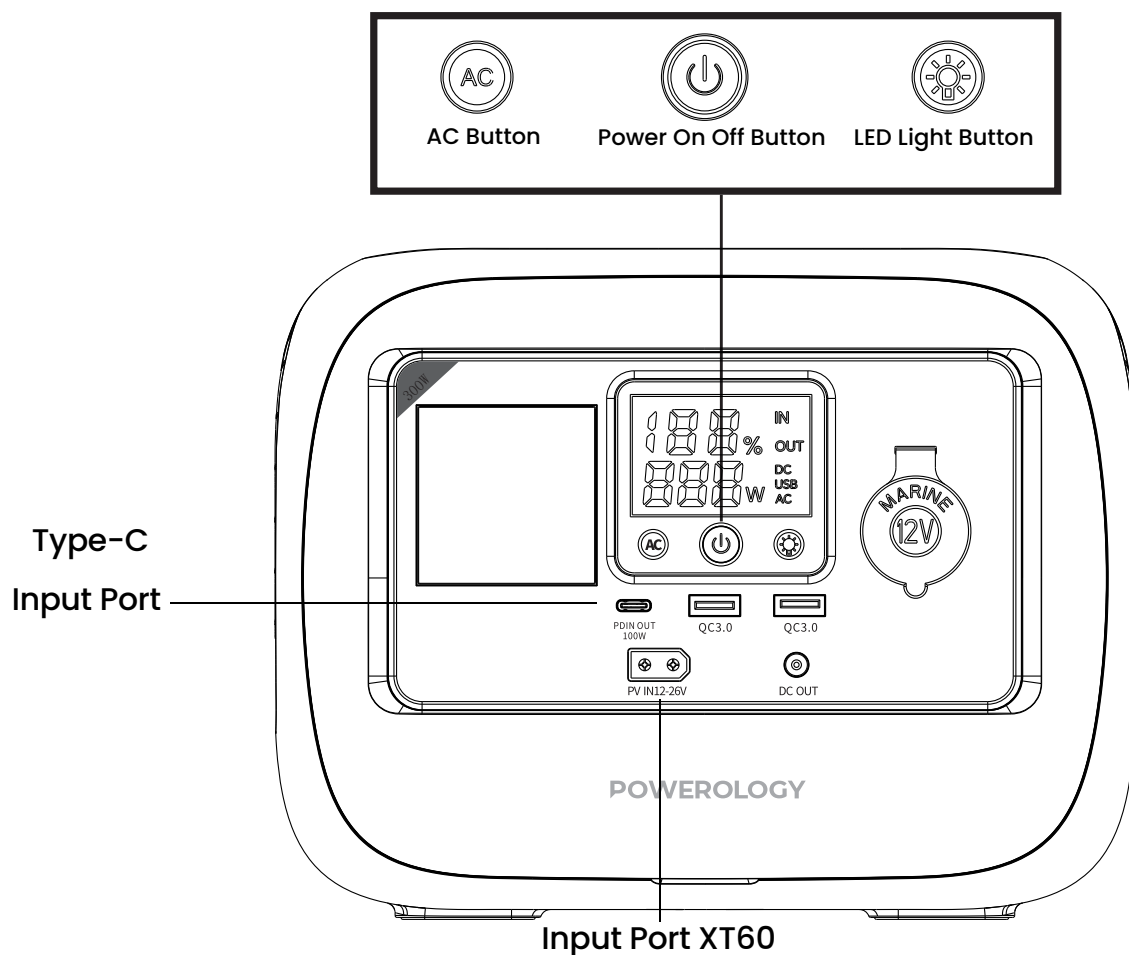
AC Output

1. Double-click the AC Button to activate the AC output. The fan will run a 3-second self-test. Double-click the AC Button again to turn off the AC output.
2. Connect AC devices; the real-time power usage will be displayed.
3. If Fault code E25 appears due to overload or short circuit, clear the fault and then double-click the AC button to restore the AC output.
4. When there is output through the AC port, the "out" icon will light up. If there is no output, the icon will turn off.



Charging the Power Station

1. Type-C Port: Supports plug-and-play and bidirectional charging (max. 100W).
 2. XT60 Port: Solar input (12V-26V, max. 100W).
- Note:** Type-C and XT60 ports cannot be used simultaneously.



Specifications

Model	PWGC300
Battery Capacity	236.25Wh, 11.25V/21Ah
Battery Voltage	11.25V
Voltage	230V (AC Output)
Frequency	50Hz
USB-C Input	5V-12V/3A, 20V/5V, 100W Max
MPPT Solar Input	12-26V/5A, 100W Max
DC Input	12-26V/5A, 60W
AC Output	230V, 50Hz, 300W (Peak 600W)
USB-C Output	5V-12V/3A, 20V/5A, 100W Max
USB-A1/A2 Output	5V/3A, 9V/2A, 12V/1.5A, 18W Max (QC3.0)
Sharing Output	5V/3A, 15W Max
Car Port Output	12V/10A, 120W Max
5521 DC Output	12V/10A, 120W Max
Operating Temperature	-10°C to 50°C
Humidity	10 % to %90 (non-condensing)
Weight	2.6kg
Product Dimension	216 x 166 x 162mm



Troubleshooting

Code	Description	Instructions
E01	The DC Output is overloaded.	Disconnect the load, then press the Power Button once to clear the code.
E02	There is a DC Output short circuit.	Resolve the short circuit, then press the Power Button once to clear the code.
E03	The AC Output is overloaded or has a short circuit.	Address the issue, then double-click the AC Button to clear the code.
E04	The AC Output is overheating.	The code will automatically clear once the temperature returns to normal.
E05	There is an issue with PD Output/Input overload or short circuit.	Disconnect the load, then unplug and reconnect the cable.
E06	The charging is overheating.	The code will automatically clear once the temperature returns to normal.
E07	The charging temperature is too low.	The code will automatically clear once the temperature returns to normal.
E08	The USB Output is overloaded or has a short circuit.	Resolve the issue, then press the Power Button once to clear the code.
E09	The DC Charging is experiencing overvoltage.	The code will automatically clear once the input voltage returns to normal.
E10	The DC Charging is experiencing undervoltage.	The code will automatically clear when the input voltage returns to normal.
E11	The Discharge Battery is overheating.	The code will automatically clear once the temperature returns to normal.
E12	The Discharge Battery temperature is too low.	The code will automatically clear once the temperature returns to normal.

FAQs

Q1: Does the device automatically shut down when idle?

A1: Yes, the device will automatically shut down after 4 hours of inactivity with no load. To disable the auto-shutdown feature, press and hold the Power and LED Buttons for 5 seconds. This setting will be automatically restored after the device is restarted.

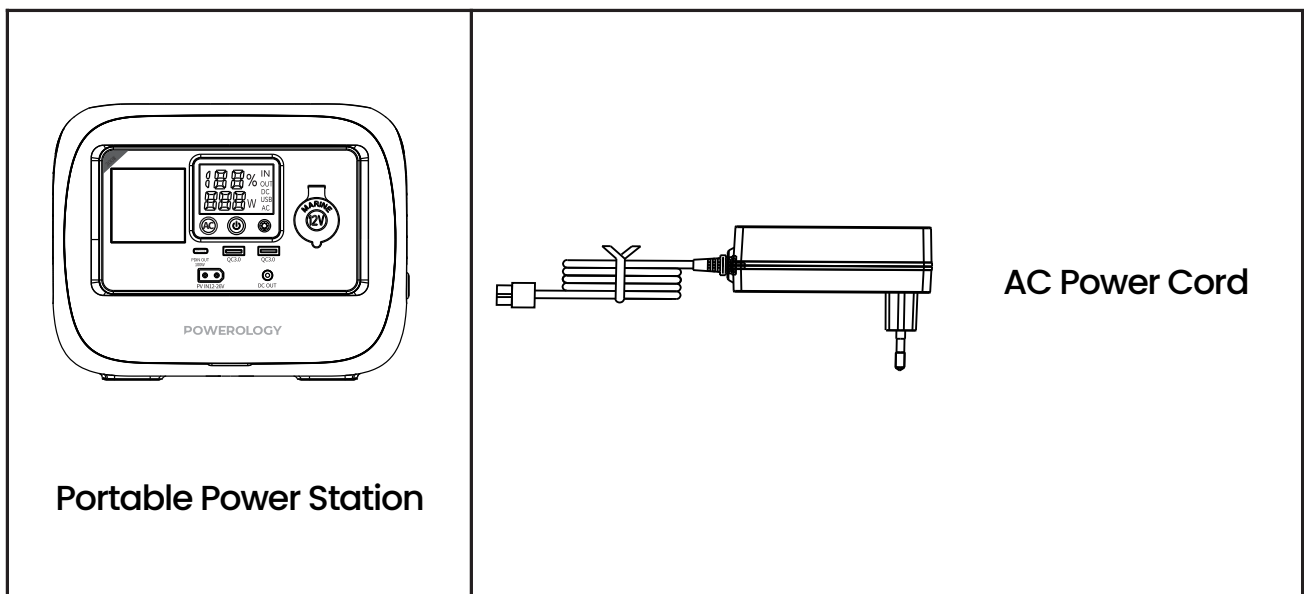
Q2: Can the device charge and discharge simultaneously?

A2: Yes, it can, except for the Type-C port.

Q3: How does the fan operate?

A3: The fan automatically adjusts its speed based on the temperature and power load.

Package Contents



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**

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