POWEROLOGY

Powerology Portable Power

Generator Fast Charging 76800mAh 300W

SKU: PPBCHA40

Table of Contents

Before installing and using the product, please carefully read this User Manual to guarantee correct usage and keep it secure for future reference.

Warning

1. Please ensure the product remains dry and is kept at a distance from any sources of fire.
2. Do not disassemble, puncture, or apply excessive force to the product.
3. Kindly adhere to local laws and regulations when recycling and disposing of the product.

Safety Instructions

Warning: The following basic precautions must always be observed when using this product.

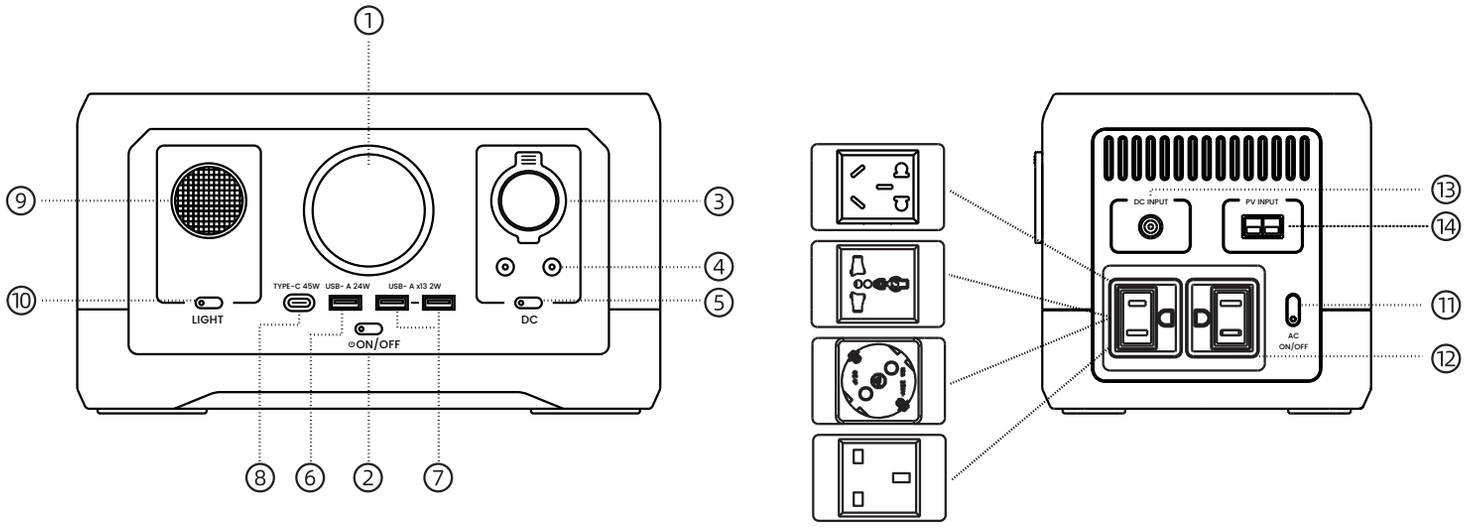
1. Please read the user's manual carefully before using this product.
2. To reduce the risk of injury, close supervision is required when using this product near children.
3. Please do not put your fingers, parts of your body, or any objects into the product.
4. Use of non-recommended accessories may cause fire, electric shock, or personal injury.
5. Please do not use damaged or modified batteries, packs, or devices.
6. Do not use this product with a damaged cord, plug, or output cable.
7. Please do not disassemble the power supply by yourself when the product requires maintenance or repair. Incorrect disassembly methods may cause fire or electric shock. Please submit the portable power supply to a qualified service provider.

8. When the product fails, please disconnect the portable power supply from the socket before carrying out any guided maintenance operations to reduce the risk of electric shock.
9. Change the internal battery in a well-ventilated place and do not obstruct air circulation.
10. Under extremely conditions, liquids may be sprayed out from the battery. Your hands or eyes are required to avoid contact with the battery and liquids. If accidental contact occurs, rinse with clean water. If liquid contact with eyes, seek immediate medical help.
11. Please do not expose the product to fire or excessive heat environment.
12. Maintenance is provided only by qualified service personnel.
13. The mobile power station must be charged with an officially designated charging cable. The company will not be responsible for providing free maintenance services for all the consequences of charging non-original accessories that cause product failures. Please keep these safety instructions.

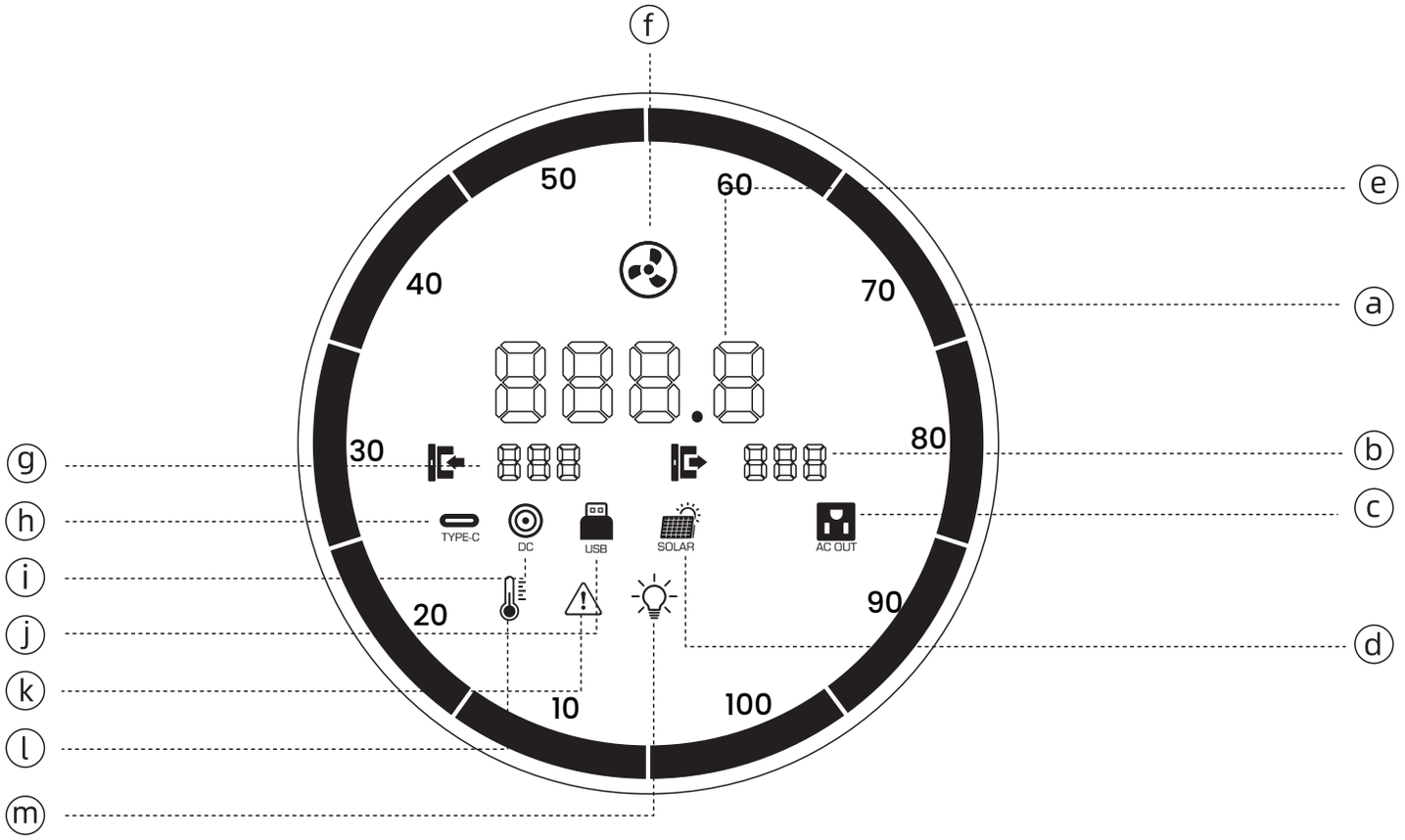
Instructions for Use, Safety, and Maintenance

Before installing and using the product, please carefully read this User Manual to guarantee correct usage and keep it secure for future reference. Understanding the manual will enable you to utilize the portable power generator effectively. We recommend starting with the turn on/off procedure. To power on the portable power generator, simply press and hold the power button (②). To initiate the AC output power port, you need to press and hold AC ON/OFF (⑪) while portable power generator is on. This function is purposefully engineered to extend battery life during periods of non -use.To acquaint yourself with the portable power generator's various features, read this manual , which details the functions of

the ports, buttons, displays, and more. For technical specifications and operational guidelines of this advanced portable power station, the information is presented in a structured format within. To charge the portable power generator, you may use either an AC adapter or a compatible solar panel. For answers to common queries regarding the maintenance, storage, and operation of the portable power generator, refer to the frequently asked questions (FAQ) section. Should you have any inquiries, please contact us.



1. LCD Display Interface



a. Power Level Indicator

This indicator displays the State of Charge (SOC) as each grid represents 10 % power. It is crucial to recharge the portable power generator when the battery level is below 20 %.

b. Current Output

This feature exhibits the real-time power output of the portable power generator in watts (W). When multiple ports are utilized concurrently, the display aggregates and shows the total power output.

c. AC Out Indication

Engaging the AC switch illuminates of the AC OUT indicator, signifying the active state of AC output. This also reflects the current output level, indicated in Current Output.

d. Solar Charging Indication

When a solar panel is deployed to replenish the power generator's battery, the SOLAR indicator is activated. This results in an increase of input power and the remaining usage time refers to the charging time.

e. Remaining Chargeable/Rechargeable Time

The remaining chargeable/rechargeable time is determined based on the present rate of energy consumption.

f. Fan Indicator

The operational velocity of the fan is correlated with both the value of load and the ambient temperature. A higher load or elevated temperature conditions will result in a faster fan speed, as a means to dissipate heat effectively.

g. Current Input

Indicates the real-time power input level of the power generator in watts (W).

h. Fast Charging Type-C Port

Utilize the Type-C port for expedited charging of devices, including those as advanced as the MacBook Pro. Devices that support Type-C connectivity can be charged via this port. The output indicator for the USB/Type-C will automatically illuminate upon activating the Power key (this output operates concurrently with the USB port)

i. DC Output

Activation of the DC switch is signified by the illumination of the DC icon. At this juncture, the DC5521 and cigarette lighter ports can supply power.

j. USB Port

This port is designed to charge a variety of devices such as Phones, tablets, GoPros, and speakers that rely on USB for power. The USB output indicator lights up automatically when a USB port is in use. Note that the USB and Type-C ports share a unified switch mechanism, negating the need for repetitive switching.

k. Overload Protection

In instances where the load power exceeds the rated capacity of the power generator, the system will automatically shut down to prevent damage and displays the OVERLOAD warning icon. This safety measure ensures the longevity of the appliance and safeguards the primary unit. Should this occur, refrain from utilizing appliances that surpass the unit's power threshold and manually reset the AC output switch before subsequent use.

l. High Temperature Indicator

Should the thermometer icon on the power generator display in red, it indicates an abnormal rise in the device’s temperature. This will result in a temporary cessation of all input and output functions, with the system's fan activating to facilitate cooling.

Operations will recommence automatically once the temperature of the core or the affected port returns to normal levels.

m. LED Light Indicator

The LED light icon on the display is designed to turn on concurrently with the activation of the light's illumination feature.

2. Power Button

To activate the power generator, press and hold the switch for 2 seconds, which will also illuminate the display. Activate USB, TYPE-C, and wireless charging functions by pressing the power button. To conserve battery life and maintain its health when the power generator is not in use, press and hold the power button inward for 2 seconds to power down the unit.

3. Car Charger Output Port

This port features a car charger output, capable of delivering up to 10A of current. Its default voltage range is between 10.8V to 16.8V, though this can be customized through an App. This port is suitable for charging general car appliances and 12V lead-acid batteries in small cars, but should be operated with professional guidance.

4. DC Output

Equipped with two DC 5521 output ports, each supports up to 3A current output, suitable for devices that adhere to the DC 5521 power specification. The default output voltage spans from 10.8-16.8V, adjustable via an App. Prior to using this port, ensure the App's output voltage setting aligns with your device's requirements. Additionally, when using in conjunction with a car charger, it is imperative to synchronize the output voltage of both the charger and the port to avoid discrepancies.

5. DC Output Switch

Activate or deactivate the DC power of the power generator by

toggling the DC ON/OFF button. The status of the power is indicated by the button's light, which will either be on or off. This switch operates two DC 5521 ports and one car charger port. To conserve energy and maintain battery integrity when the DC outputs are not required, switch off the power supply.

6. USB-A1 Output Port

The USB-A1 port delivers a maximum power output of 24 watts.

7. USB-A2 Output Port

This port consists of two USB-A connections, each with a maximum power output of 13 watts.

8. Type-C Output Port

The Type-C port provides up to 60 watts of power for fast charging. Devices incompatible with fast charging will be charged at a standard rate.

9. Auxiliary Light

Turn on the LED auxiliary light by pressing and holding the LIGHT /IOT button for 2 seconds. This action also resets the Wi-Fi connection settings.

10. Auxiliary Light/IOT Switch

Activate or deactivate the LED auxiliary light using the ON/OFF switch.

11. AC Output Switch

The AC output operational state is controlled by this switch. Pressing the AC output switch turns the AC power of the power generator on or off, initiating or halting the output operation of the AC output port.

12. 2 pcs AC output outlets (120-100V) / 1pcs AC output outlet (240-200V)

his device charges the devices with a voltage of 110V (120-100V range) / 220V (240-200V range) with a total output power of 700W. Before connecting additional devices, verify their power and voltage requirements to prevent improper functioning or damage due to excessive power.

13. Charging Input Port

This port allows for the connection of the power generator to an AC power outlet for charging.

14. Solar Charging Input Port

The station accommodates up to 1 piece of 100W solar panel in series. While there is no limit to the number of parallel connections, the input capacity of the unit is restricted to a maximum of 100W.

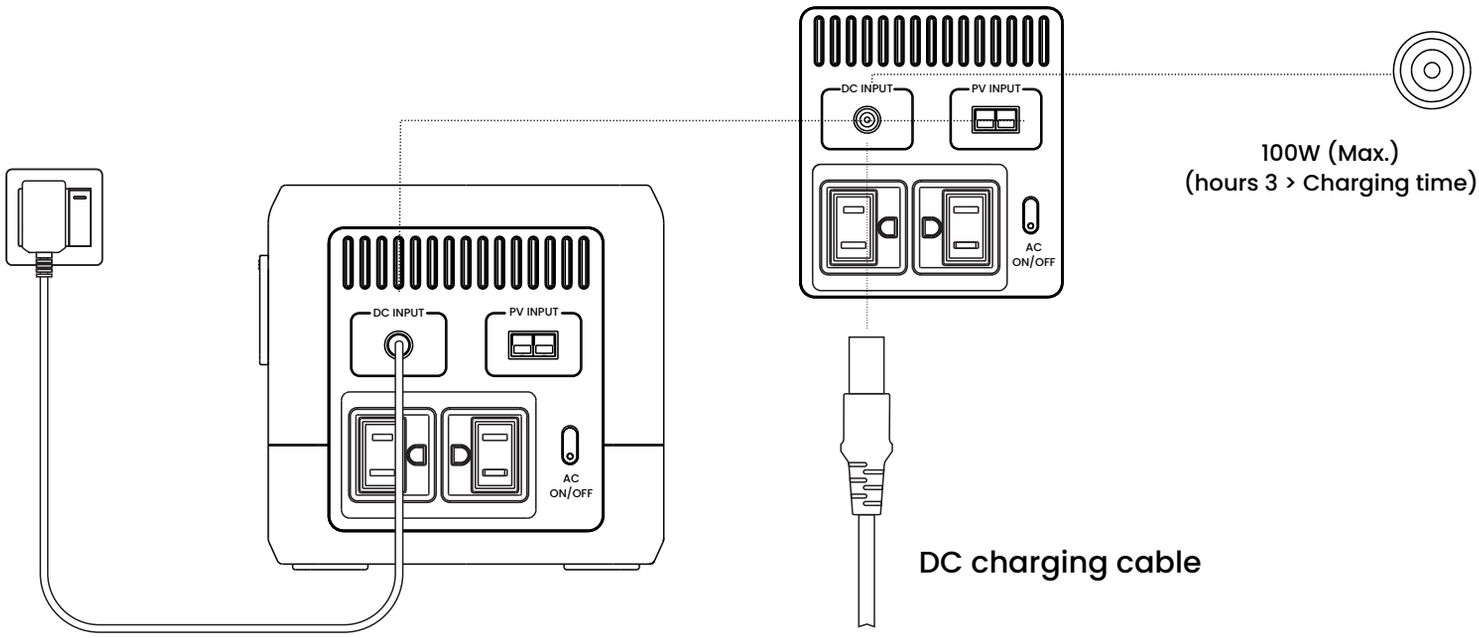
Charging the Power Generator

The portable power generator offers three distinct charging methods:

1. A DC charging port designed for connecting to an electrical outlet, as illustrated in diagram 1.
2. An Anderson port that facilitates charging via a car charger, detailed in diagram 2.
3. The device can be charged through connection to solar panel, as depicted in diagram 3.

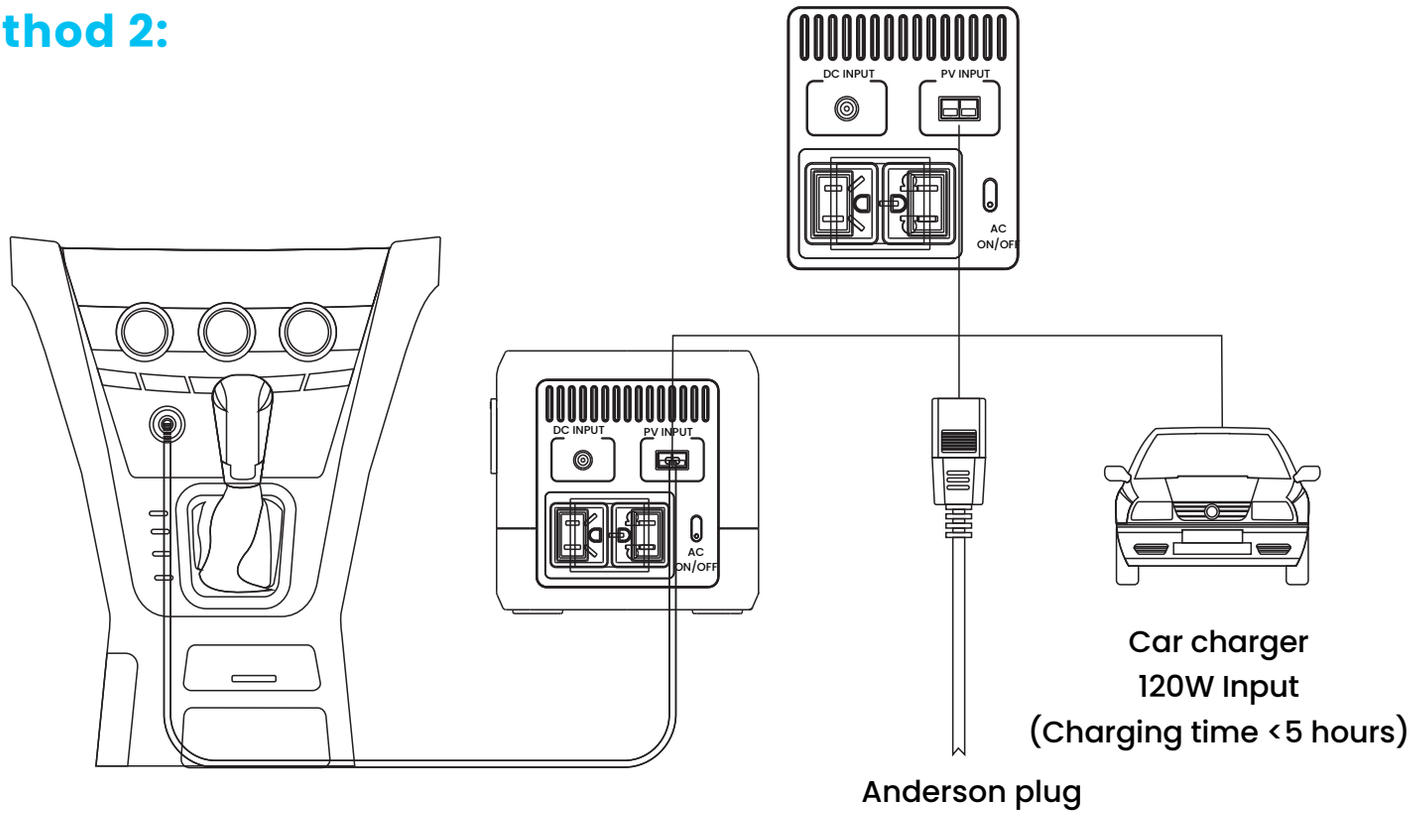
Note: The portable power generator is engineered to provide electricity output while charging.

Method 1:



To charge the power generator, insert one end of the supplied adapter cable into the DC port (as indicated in the accompanying image) and connect the other end of the cable to the electrical outlet

Method 2:

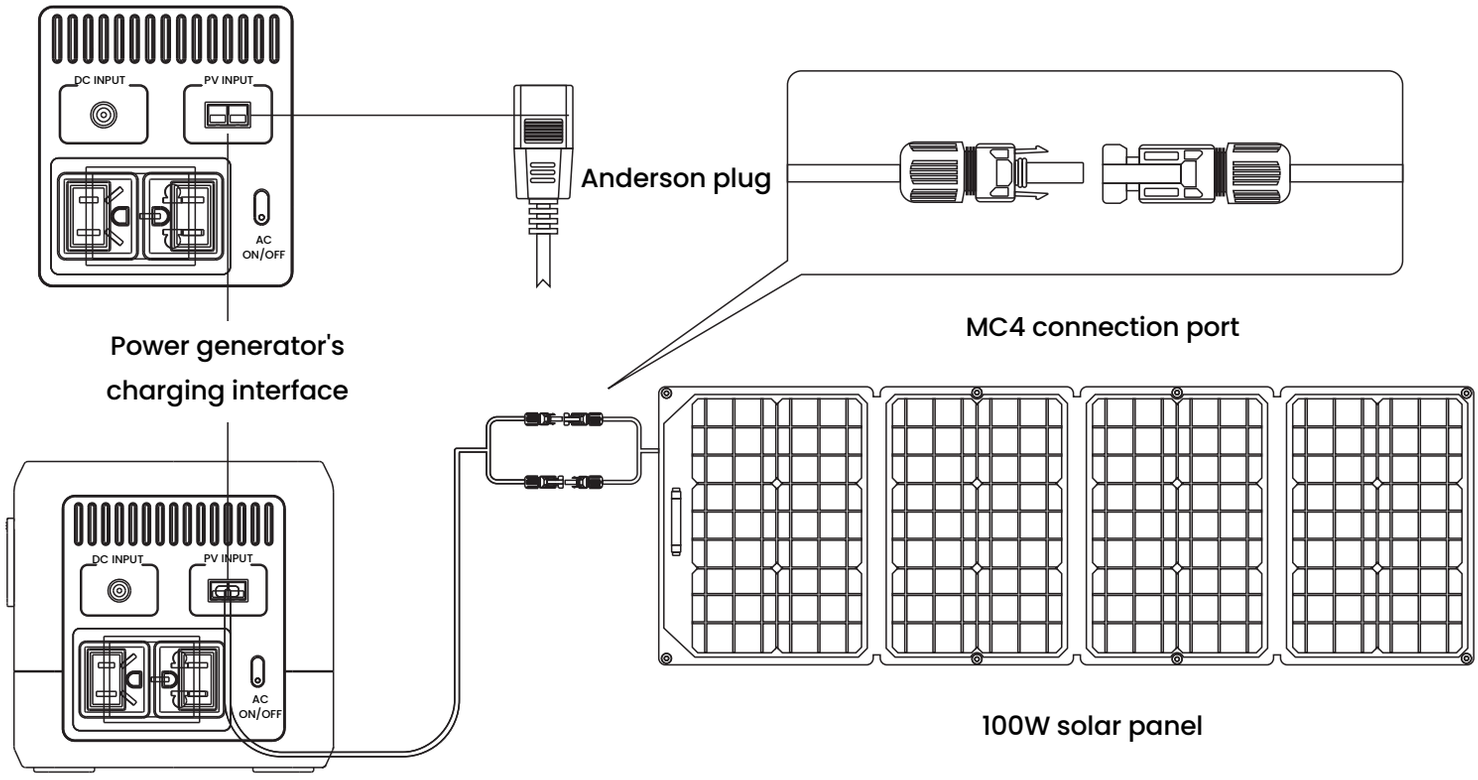


Charge the power generator by connecting the Anderson cable to the cigarette lighter port. Connect the other end of the Anderson cable to the power generator.

Important Note: Do not attempt to charge the portable power generator with the car charger while the vehicle's engine is off. Doing so can lead to excessive discharge of the car’s lead-acid battery, potentially preventing the engine from starting.

Method 3:

The portable power generator can be charged utilizing the MC4 interface of a solar charging panel, as demonstrated in diagram 3.



Specifications

General Specifications	
Size	25.4×14.4×13.7cm (10×5.7×5.4 inch)
Net. Weight	2.9kg (6.4lbs)
Capacity	285Wh / 14.8V
Certifications	PSE / UL / FCC / CE / ROSH

Output	
AC Output	300W (Max. 600W) 110V/220V (50Hz/60Hz)
USB-A1* 1 Output	5V / 9V / 12V (Max. 24W)
USB-A2* 2 Output	5V (Max. 13W)
Type-C Output	5V / 9V / 12V / 15V (Max. 45W)
Car Charger Output	11V to 16.8V / Max. 8A
DC5521* 2	11V to 16.8V / Max. 8A

Input	
DC Charging Input Power	11V to 30V / Max. 100W

Battery	
Cell Chemistry	NCM
Cell Type	18650
Pack	4S4P / 4.8Ah / 3.7V * (4*4)
Discharge Temperature	14°F ~ 140°F ± 5°F (-10°C ~ 60°C ± 3°C)
Charging Temperature	32°F ~ 113°F ±5°F (0°C ~ 45°C ± 3°C)
Life Span	800 Cycles (Battery level %80)

FAQ

1. How to safely use the portable power generator?

Answer: To ensure the safe operation of the portable power generator, it is essential to use it within its specified operating temperature range. Exceeding this range may compromise the power station's safety and efficiency. It is important to note that the power generator is not waterproof. Avoid immersing or soaking the device in water. The use of high-power electrical appliances continuously may result in a rise in the device’s temperature. In this case, the temperature protection feature activates. Please allow the unit to cool down for approximately 30 minutes to 1 hour before resuming use or recharging.

2. How to charge the portable power generator?

Answer:

2.1 Utilize only the provided charging cable for charging the portable power generator. The manufacturer is not liable for any issues arising from the use of third-party or non-original accessories.

2.2 Position the power station on a stable, level surface away from any flammable or combustible materials during charging. To ensure safety and prevent accidents, be present while the product is being charged.

2.3 If the battery becomes hot after a full discharge cycle, allow the power station to return to room temperature before initiating a new charging cycle. Charging under extreme temperatures is not recommended. While the battery can operate in ambient temperatures ranging from 0°C to 40°C, maintaining an ambient temperature between 22°C and 28°C is optimal and can significantly enhance the battery's longevity.

3. How to store and transport the portable power generator?

3.1 The portable power generator should be stored in a location inaccessible to children. In the event a child ingests any parts of the device, seek medical attention, immediately.

3.2 Before storing the product, ensure the device is charged to prevent battery damage from low power levels. If the device is left undercharged for an extended period, the battery may enter a deep sleep state. To awaken the battery from the deep sleep state, use the slow charging mode until it reaches full charge. For optimal battery health, it is advised to perform a deep discharge followed by a full charge with the slow charger every three months.

3.3 Do not place the portable power generator near sources of heat, such as inside a vehicle under direct sunlight, near fire, or close to a heating oven.

3.4 Store the power station in a dry environment. Avoid placing the device in areas susceptible to water exposure or where leaks might occur.

3.5 The storing or transporting of the device with glasses, watches, metal necklaces, hairpins, or other metal objects is strongly prohibited.

Note: The portable power generator is not permitted for transport on board an aircraft.

4. What is the correct procedure for the safe disposal of product batteries?

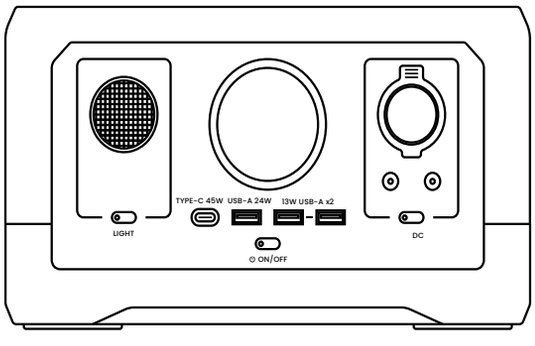
4.1 Before disposing of the batteries, confirm they are fully discharged. Place the batteries in the appropriate recycling container as they contain hazardous chemicals and should not be thrown away with regular waste Adhere to the relevant laws and regulations regarding battery recycling and disposal for detailed guidance.

4.2 Should the battery fail to power on due to complete discharge, do not attempt to disassemble the power unit yourself; instead, responsibly dispose of it according to local regulations.

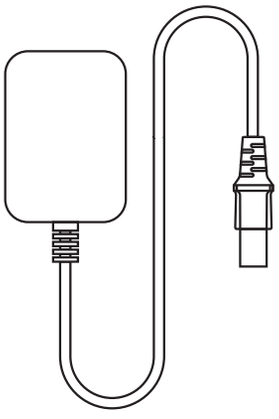
5. How to correctly maintain the portable power generator?

5.1 Avoid storing the portable power generator in environments where the room temperature exceeds 60°C or drops below -20°C.
5.2 Prolonged periods of inactivity may impact the product's performance.
5.3 It's recommended to cycle the battery by recharging and discharging it at least once every three months to maintain its health.
5.4 Due to frequent usage, the portable power generator may require periodic cleaning. Use a dry, non-abrasive cloth for this purpose. If the unit is particularly dirty, employ a specialized cleaner designed for portable phones and computer screens. Avoid exposing the product to water.

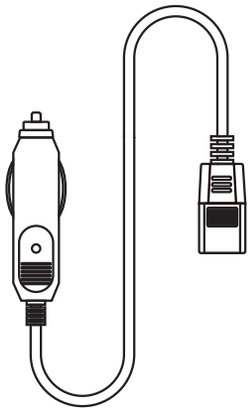
Package Contents



Portable Power Generator

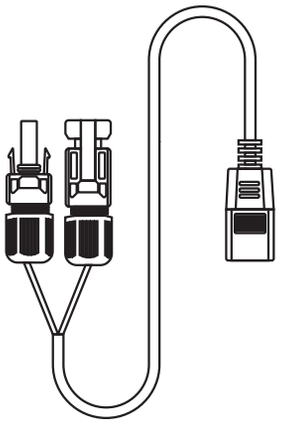


DC Cable (Input)

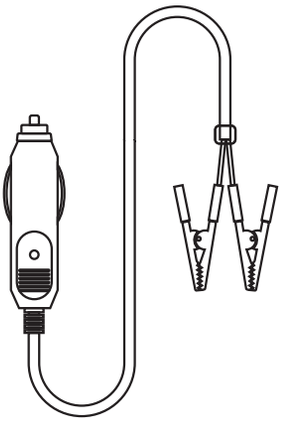


Car Battery Clamps (Output)

Accessories



Solar Panel Charge Cable
(MC4 to Anderson Input)



Car Battery Clamps
(Output)

App Connectivity

1. Download and Installation

To download and install the App:

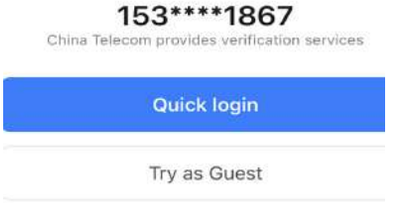
1.1 Search for the App name "**Smartlife**" in the App Store and Google Play.

1.2 Scan the provided QR code using your smartphone.

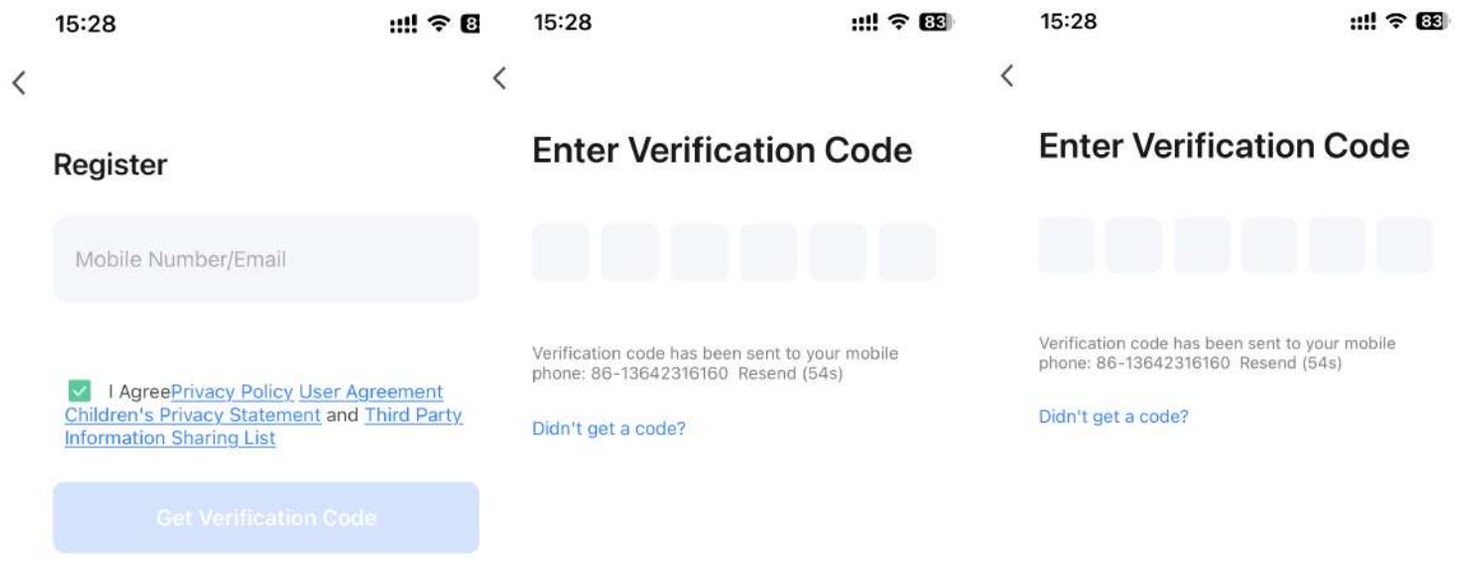
Android / IOS

2. Registration

2.1 Tap the Register icon to navigate to the account registration page.



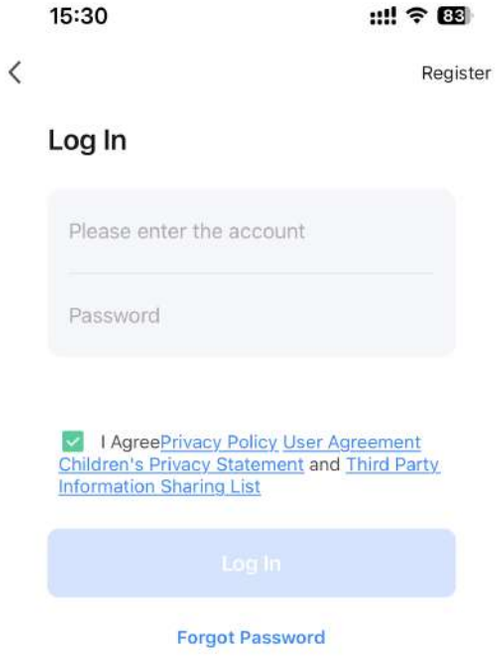
2.2 Registration can be completed using your email address or cell phone number, with the country/region defaulting to your cell phone system's settings. You have the option to manually adjust the country /region during the registration process; however, this cannot be altered once registration is finalized. To proceed, enter your cell phone number or email address and select 'Get Verification Code'.



1 2 3

3. Login

3.1 If you possess an existing App account, select 'Sign in with an existing account' under the option to 'Create a new account' to navigate to the Sign-in page.



3.2 The system automatically identifies your current country, but you also have the option to manually select a different country if necessary.

3.3 To log in, enter the cell phone number or email address you provided during registration, followed by your password.

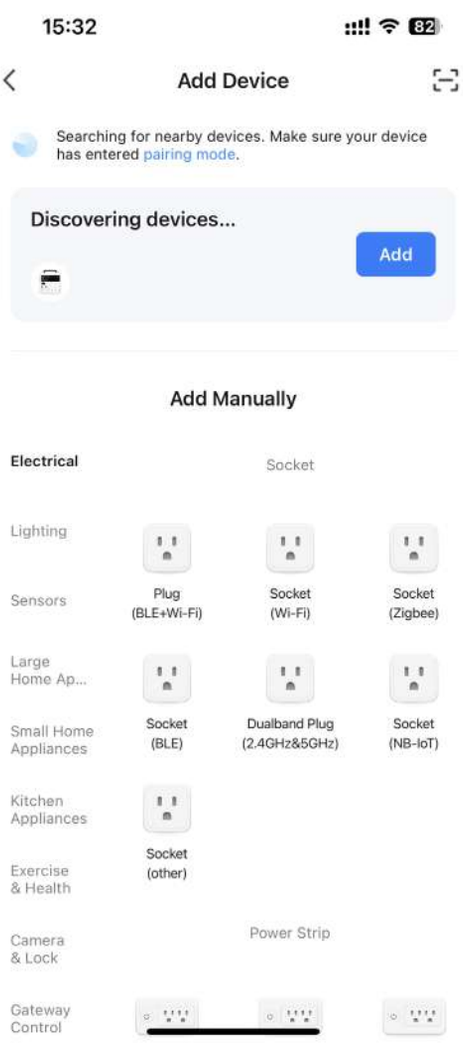
4. Adding Equipment

Begin by holding down the Wi-Fi on/off button on the mobile power unit until the Wi-Fi icon on the screen starts blinking, indicating it is ready to connect.

4.1 Connecting a Powered Device with Wi-Fi

Enable both Bluetooth and Wi-Fi features. Navigate to the "Enter Wi-Fi password" page. Only a 2.4GHz band Wi-Fi network is supported. You need to enable "Location" permission to connect to Wi-Fi, automatically.

Connecting for the First Time: Wi-Fi Setup Procedure



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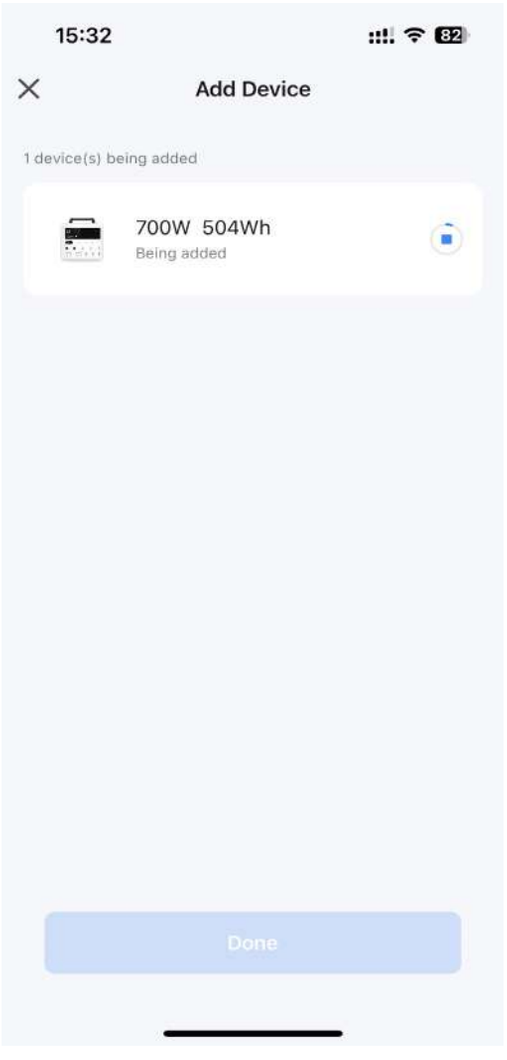

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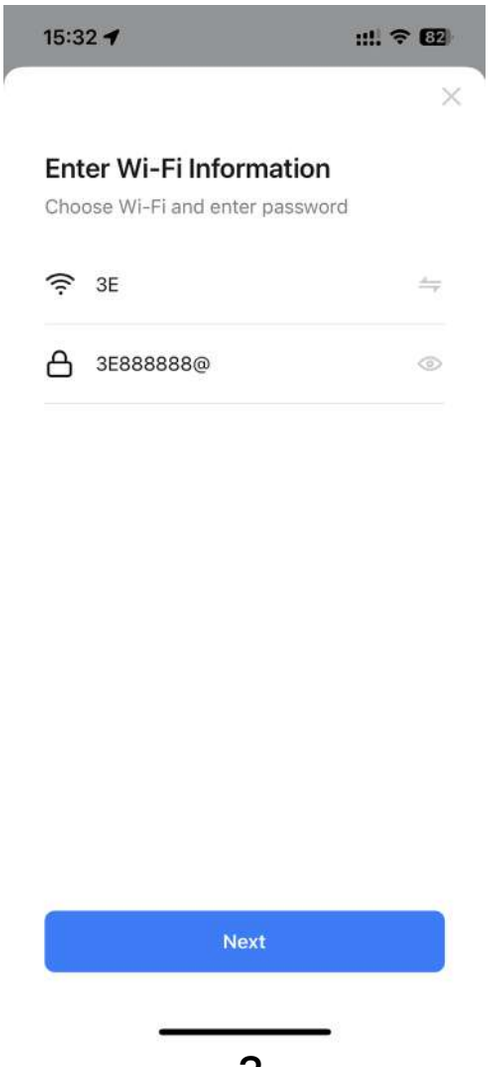
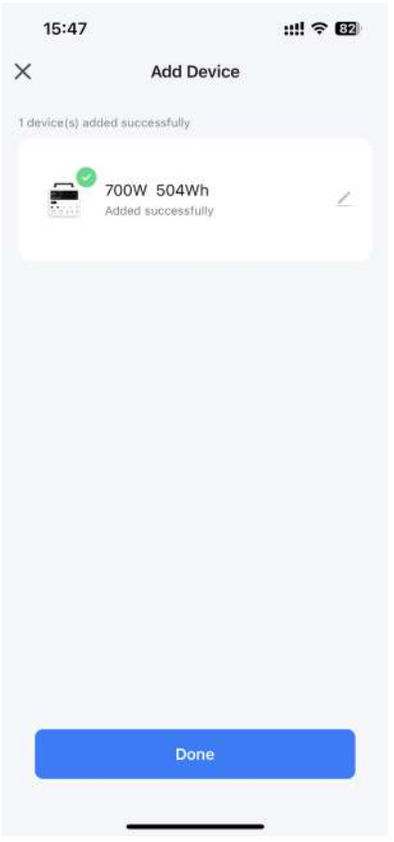


3

Select the option to connect your device. Once the connection is initiated, wait for the confirmation. Upon a successful connection, the mobile power unit will emit an audible “drop” sound.



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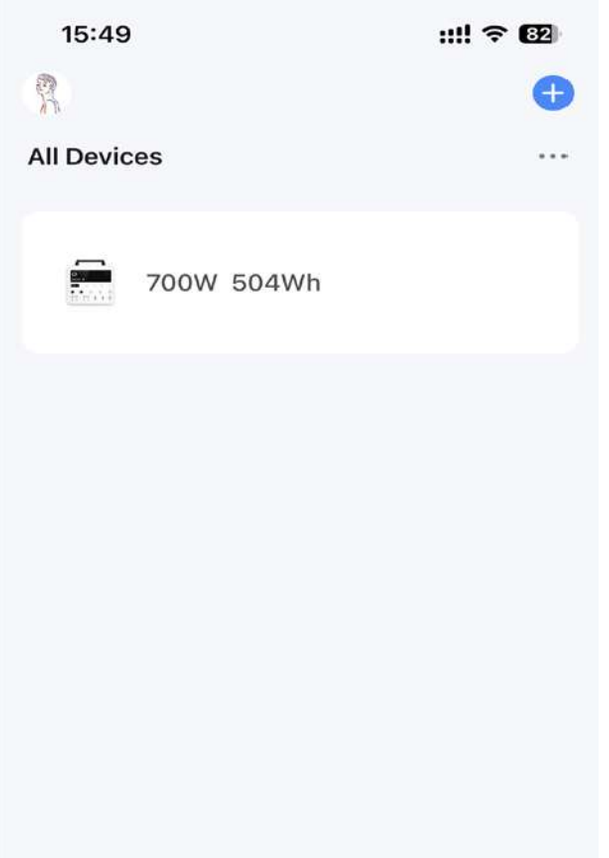
4.2 Connecting a Powered Device without Wi-Fi

Method 1

The user can utilize a Bluetooth connection to control the power supply as long as you don't reset the power IoT.



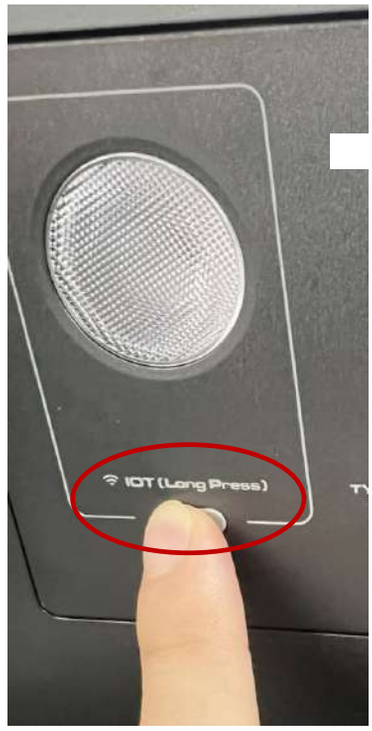
Method 2

Utilize the hotspot feature from an alternative cell phone to establish a connection. Press and hold the IoT button for an extended period to reset the Wi-Fi, and proceed with the connection steps. You may also control the power supply using the Bluetooth function.

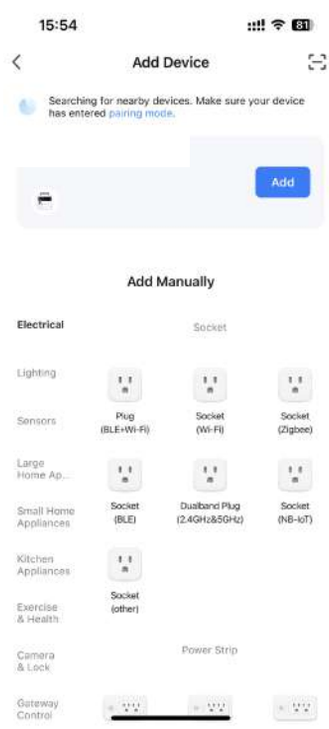
Step 1: Activate the hotspot feature on the smartphone. Enable "Allow Others to Join".
Step 2: Connect your smartphone hotspot.
Step 3: Reset the device via the IoT button.
Step 4: Utilize the "Smartlife" app to search for and add devices.

Step 1

Step 2

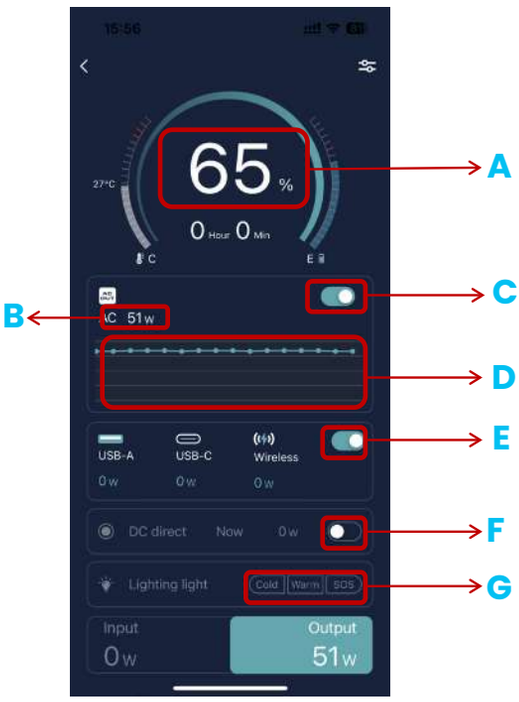


Step 3

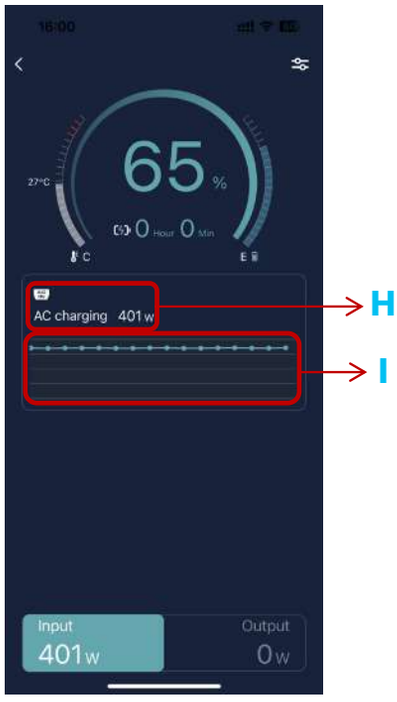


Step 4

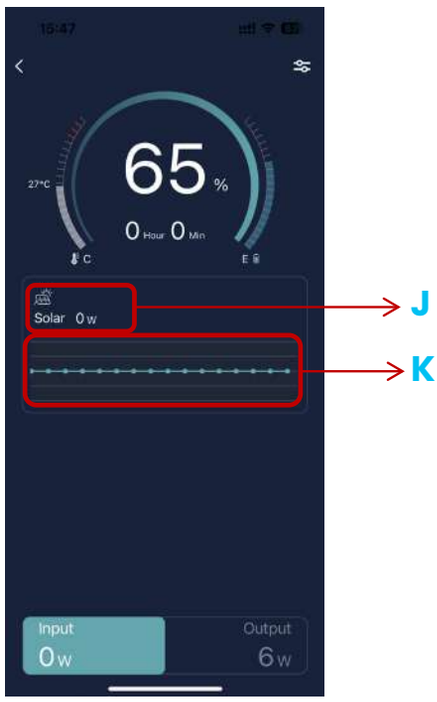
5. Interface Description



Output Interface



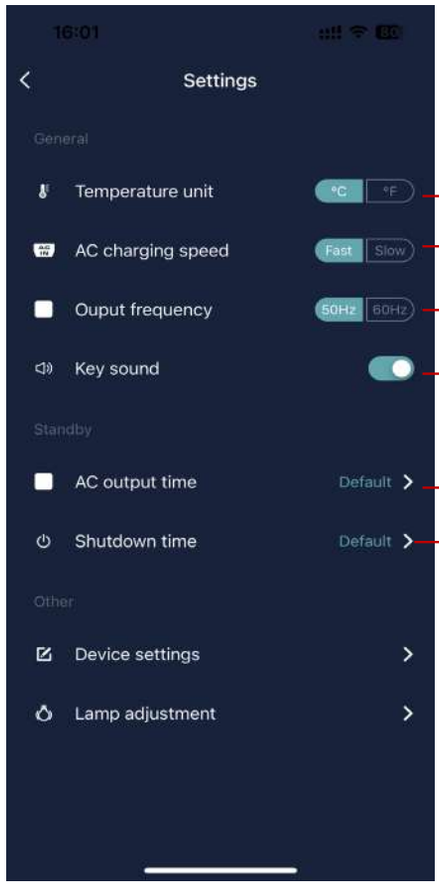
AC Input Status Screen



Solar Input Status Screen

A. Power Level	**F.** DC Output Switch
B. AC Output Power	**G.** Lighting type switch
C. AC Output Switch	**H.** AC Input Power
D. AC Output Curve	**I.** AC Input Curve
E. USB and Wireless Charging Output Switch	**J.** Solar Input Power
	K. Solar Input Curve

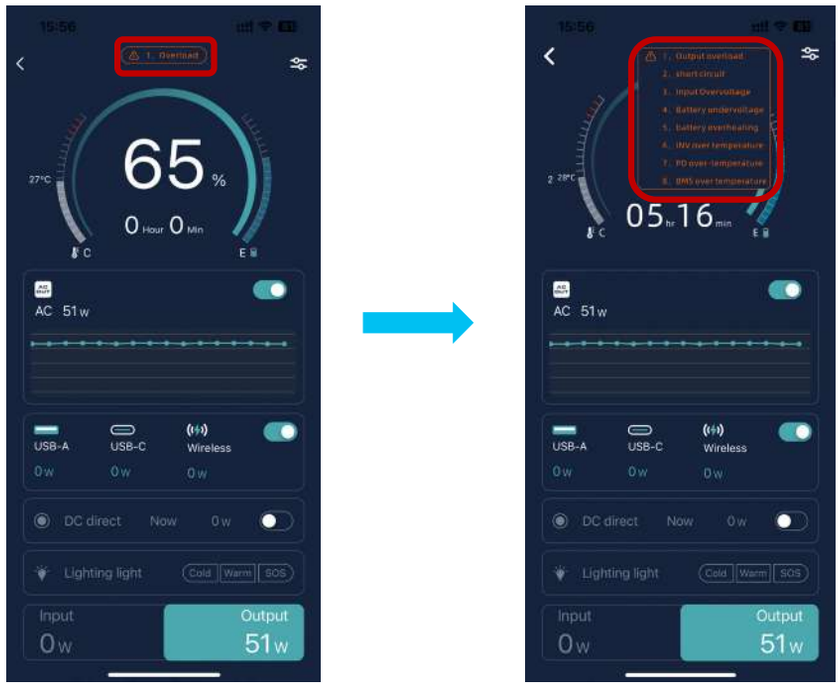
Go to the Settings page



A. Switching temperature units
B. Switching charging speed
C. Switching output frequency
D. Pushbutton Sound Switch
E. Setting the AC output switching time
F. Setting the shutdown time

7. Error Prompt

Tips will pop up at the top of the page, and you can click to expand the view when multiple faults are present.



Warranty

Products that you buy directly from our **Powerology** website or shop come with a 24-month warranty.
The 24 months 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 12 months warranty. To extend your product's warranty, visit our website **https://powerology.me/warranty** and fill 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 24 months of warranty period.

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

Contact Us

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Website: **https://www.powerology.me/**
Instagram: **Powerology.me**
Facebook: **Powerolog**