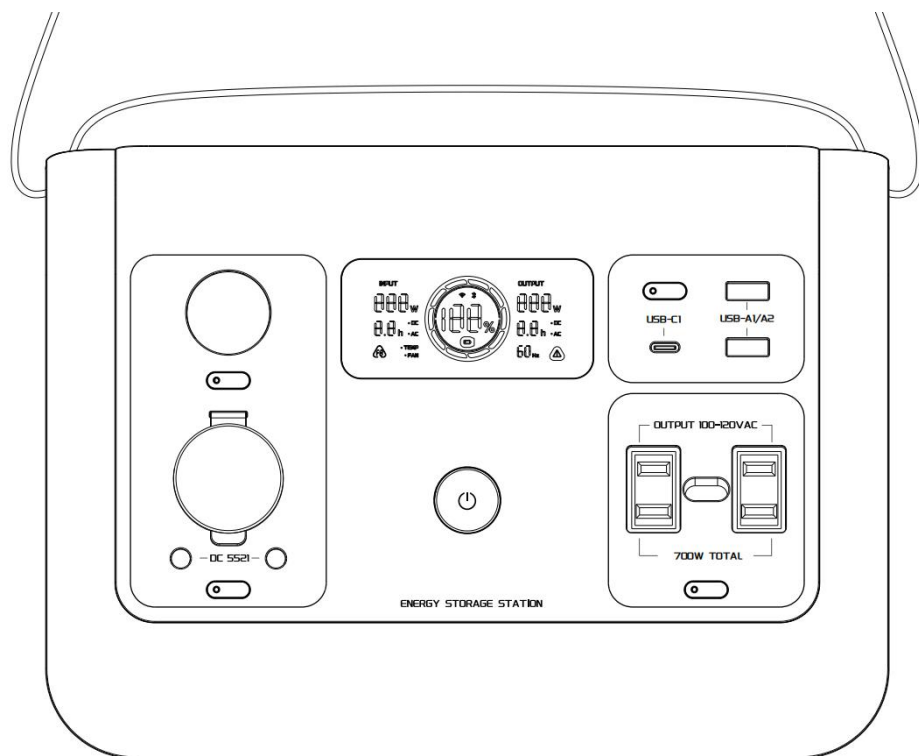


PE-700 series

Portable Power Station

User Manual



Please read this manual before use and follow its guidance.
Keep this manual for future reference.

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1. Declaration

1. Please read this ENTIRE User Manual carefully before using the product to ensure that you completely understand the product and can correctly use it. After reading this user manual, keep it properly for future reference. Improper use of this product may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you understand, approve and accept all the terms and content in this document. SOSEN INNOVATION is not liable for any loss caused by the user's failure to use this product in

2. Important Safety

2.1 Usage

- 1. Before using this product, please be sure to read ENTIRE User Manual and check all materials. If the equipment is damaged, cracked, electric leakage, AC disconnection and other abnormal conditions, please stop using it immediately.**
- 2. Do not use the product near a heat source, such as a fire source or a heating furnace.**
- 3. Avoid contact with any liquid. Do not immerse the product in water or get it wet. Do not use the product in rain or humid environments.**
- 4. Do not use the product in an environment with strong static electricity/magnetic fields.**
- 5. Do not disassemble the product in any way or pierce the product with sharp objects.**

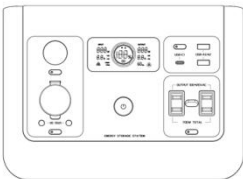
- 10. When using the product, please strictly follow the operating environment temperature specified in this User Manual. If the temperature is too high, it may result in a fire or explosion; if the temperature is too low, the product performance may be severely reduced, or the product may cease to work.**
- 11. Please avoid impact, falls, or severe vibrations when using the product. In case of a severe external impact, turn off the power supply immediately and stop using the product. Ensure the product is well fastened during transportation to avoid vibrations and impacts.**
- 12. If you accidentally drop the product into water during use, please place it in a safe open area, and stay away from it until it is completely dry. The dried product should not be used again and should be properly disposed of according to Section 2.2 below. If the product catches fire, we recommend that you use the fire extinguishers in the following order: water or water mist, sand, fire blanket, dry powder, and finally a carbon dioxide fire extinguisher.**
- 13. Use a dry cloth to clean off dirt on the product ports.**
- 14. Rest the product on a flat surface to avoid damages caused by the product falling over. If the product is overturned and severely damaged, turn it off immediately, place the battery in an open area, keep it away from combustible matter and people, and dispose of it in accordance with local laws and regulations.**
- 15. Ensure that product is kept out of reach of children and pets when no adult around.**
- 16. Store the product in a clean, dry and ventilated place.**
- 17. It is recommended to use moisture barrier bags in wet environments (for example, places by the sea or waterways) to prevent the product from getting soaked. If water is found inside**

20. When the power supply is connected in normal mode to a refrigerator, power fluctuations may cause the power supply to automatically shut down. When connecting the power supply to a refrigerator that stores medicine, vaccines or other valuable items, it is

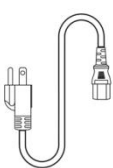
2.2 Disposal Guide

1. If conditions permit, make sure that the battery is fully discharged before disposing it in a designated battery recycling bin. The product contains batteries with potentially dangerous chemicals, so it is strictly prohibited to dispose of it in ordinary trash cans. For more details, please follow the local laws and regulations on battery recycling and disposal.

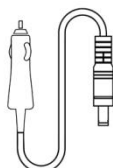
3. What's In the Box



Portable Power Station



AC Recharging Cable



Car Recharging Cable



Warranty Card



User Manual

4. Get Started

4.1 Product Introduction

This product is our company's latest research and development of PE-700 series portable power station, born in the ultimate innovation and mature technology. The company follows the national industry certification standards. Equipped with 700W power inverter and 307Wh lithium iron phosphate battery pack, it generate pure sine wave AC output. It also supports ECO

4.2 Product Features

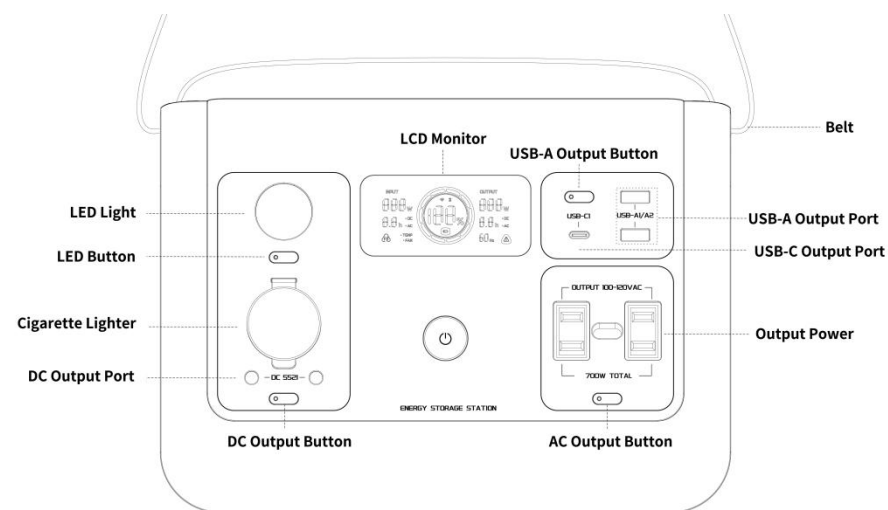
- **Automobile Grade Battery Cells**
 - **Pure Sine Wave, Appliances Friendly**
 - **Ergonomically Designed, Easy to Carry**
- **8 Safety BMS Protection Modes**
 - **ECO Mode (can set at APP)**
 - **3 Recharging Ways**

4.3 Product Specifications

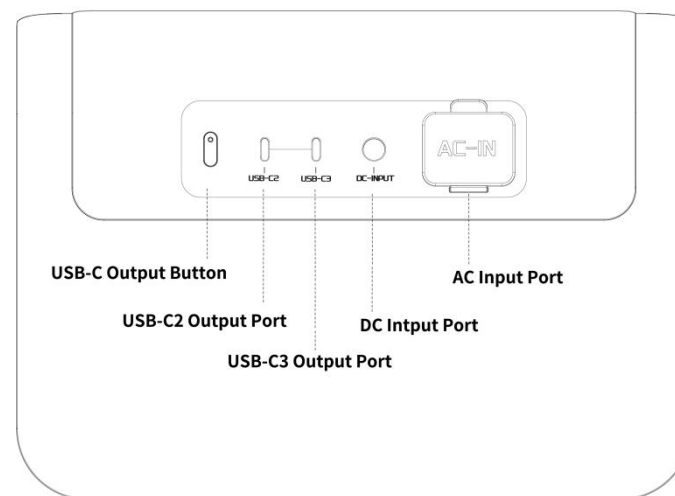
General Specification	
Model	PE-700
Rated Power	700W
Capacity	307Wh(8S2P) 25.6V 24Ah LFP(LiFePO ₄)
Cycle Life	>3000 cycles
Dimensions	255 x 170 x 180 mm
Net Weight / Gross Weight	5.5kg / 5.7kg
Certifications	UN38.3, CE, RoHS, FCC, PSE, ETL(UL2743), MIC (According to different country)
Bluetooth	Support
Housing	PC+ABS
Monitor	LCD

Output Ports (Charging Port)	
AC Pure Sine Wave	2*AC Output 60Hz (100-120V version) 700W 7A (Total)
	1*AC Output 50Hz (220-240V version) 700W 3A (Total)
USB-A1/A2) (Fast Charge)	5V=2.4A 9V=2A 12V=1.5A (18W Max)
USB-C1	5/9/12/15V=3A 20V=5A (100W Max)
USB-C2 USB-C3	5/9/12/15V=3A 20V=5A (100W Max)
DC5521 (X2)	13.6V=5A (Total 10A)
Cigarette Lighter	13.6V=8A
Input Ports (Recharging Port)	
AC Charger (X1)	50Hz/60Hz 10A 250W (100-120V version)
	50Hz/60Hz 5A 250W (220-240V version)
Solar/Car Charger (X1)	11-28V=8A 200W
LED light for Emergency	
LED Power	3w
LED Mode	(High/Medium/Low/Flash/SOS)
BMS Multi Protection	
Over Voltage/Over Current/Over Charge/Over Discharge/Overload/Short Circuit / High Temperature/Low Temperature Protection	

4.4 Product Overview



Front-

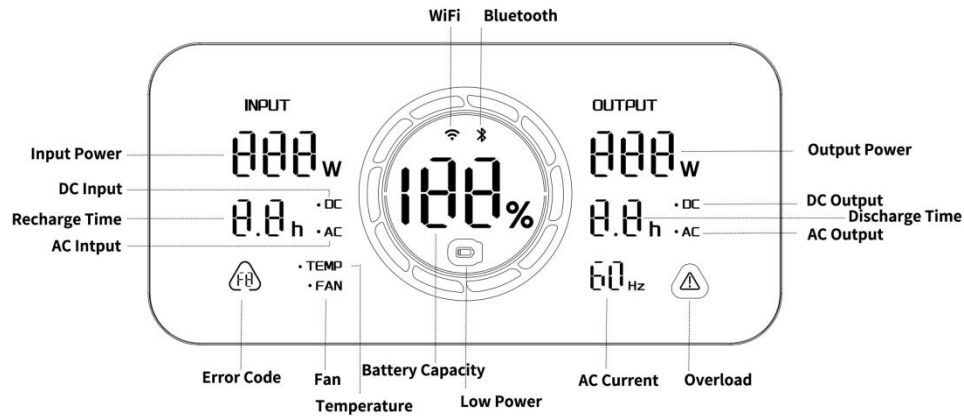


Back-v



The type of AC output socket varies in different countries, the picture above is

4.5 Product LCD Screen



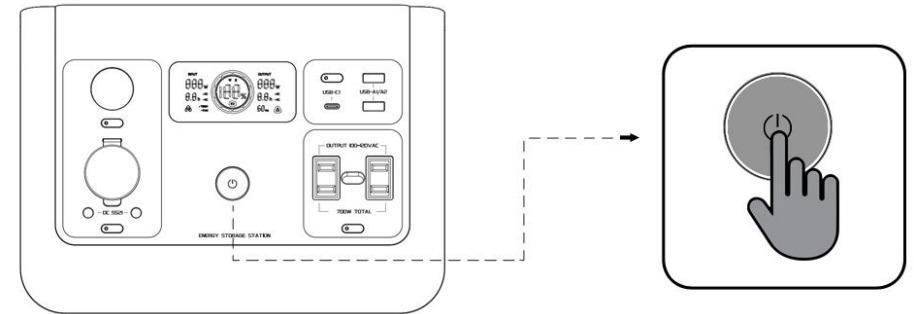
Icon	Name	State
	Remain ing Battery Percent age	Full Charged: 100%
	Recharg ing	Input Power
	Chargin g	Output Power
	Time	Recharging Time / Charging Time
	Error	Error Code



Error code Refer to

4.6 Product Power ON/OFF

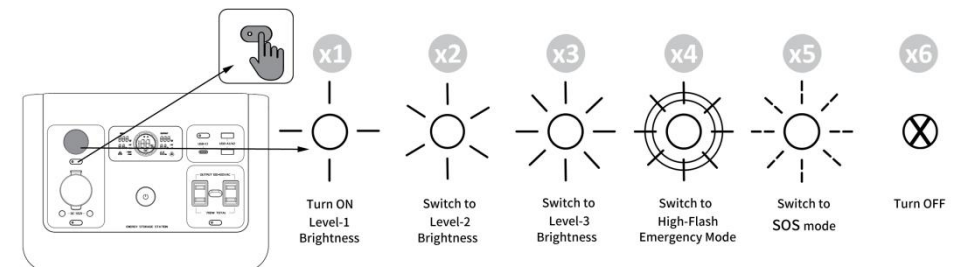
Power ON : Press down and hold the Main Power button for at least 3 seconds to turn on the product, then the LCD screen lights up and the battery indicator icon shows up.



1. After Main Power is turned on, the small main power indicator led will enter breathing mode and the LCD display is ON.
2. If the product is not used for 5 minutes, it will enter sleep mode with the LCD screen shut off. When you start to use the product again, the LCD

4.7 LED Light

Short Press the LED ON/OFF button to switch



4.8 Charge Your Device

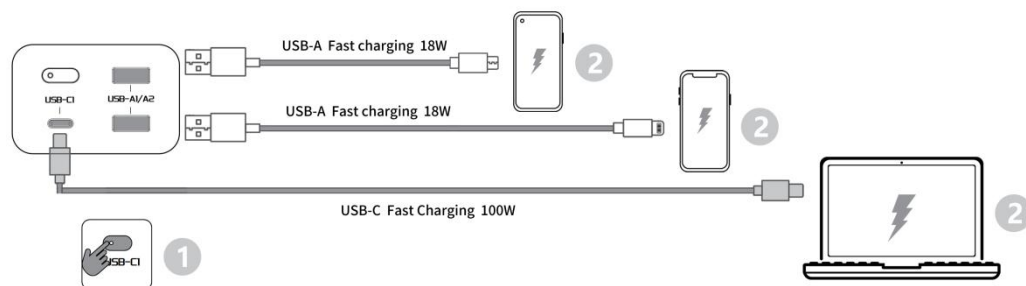


Make Sure Main Power is turned ON,

4.8.1 USB Charging (100W Max)

① **Short Press the USB ON/OFF button to active USB output.**

② **Connect your devices to the USB output ports.**



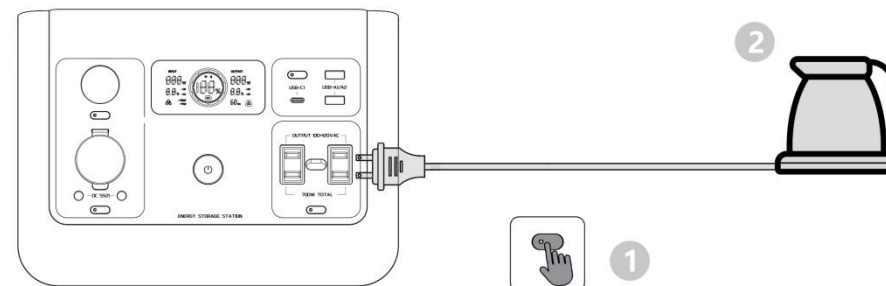
4.8.2 AC Charging (700W Max)

① **Short Press the AC ON/OFF button to active AC output.**

② **Connect your devices to the AC output ports.**



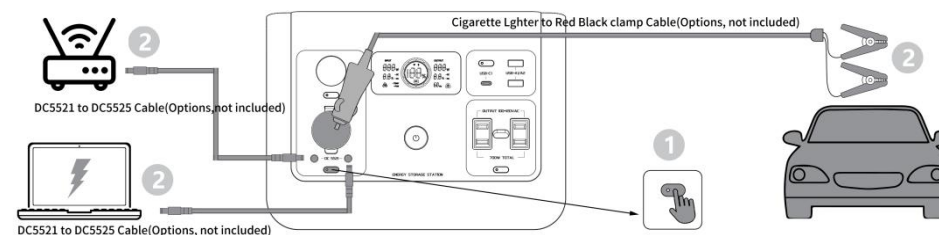
When AC output is active, even there is no device in charging, it still have power consuming. It is recommend to shutdown AC output when no device in charging. (AC output socket varies in



4.8.4 DC Charging (10A Max)

① **Short Press the 13.6V ON/OFF button to active DC output.**

② **Connect your devices to the DC output ports via**

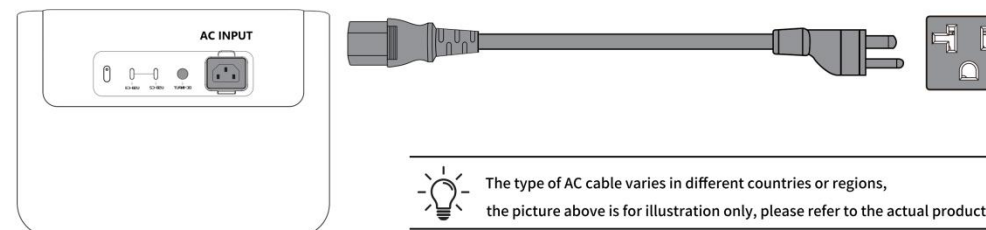


4.9 Recharge Your Power Station

4.9.1 AC Recharging (250W Max)

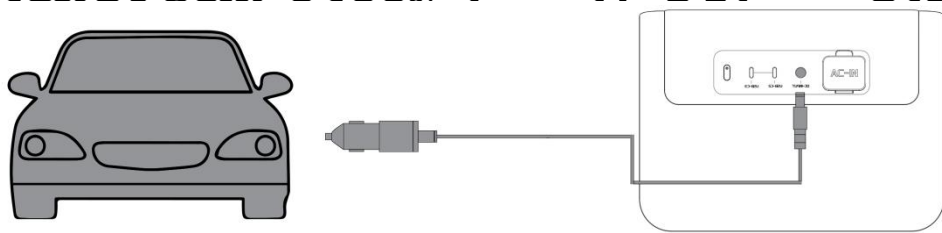
Recharge your power station by connecting to a wall outlet with the AC charging cable.

0-80% charged in 1 hour ; 0-100% charged in



4.9.2 Car Recharging (200W Max)

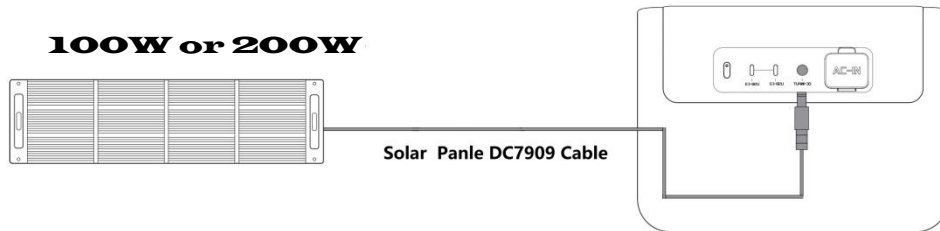
Recharge your power station by connecting to a cigarette lighter to DC7909 charging cable.



4.9.3 Solar Panel Recharging (200W Max)

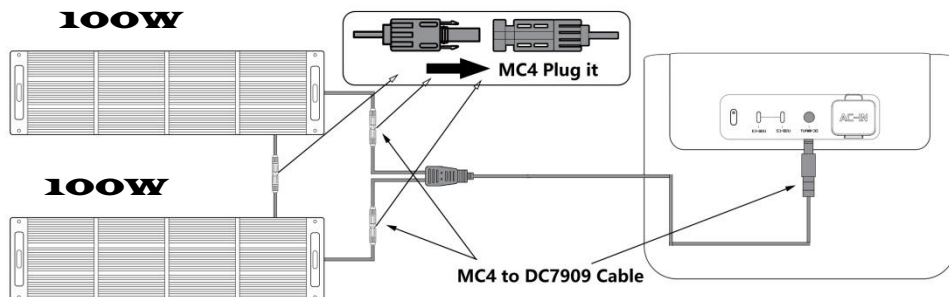
Recharge your power station by connecting 100W : 0-100% charged in 4.5 hours.

100W or 200W



If 1pcs solar panel or 2pcs in parallel output ports are MC4 connector , you need a MC4 to

200W : 0-100%

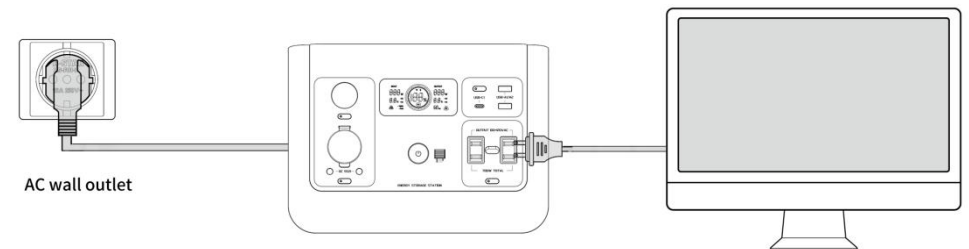


4.10 EPS (Emergency Power)



Provide a basic UPS function, this function does not support Oms switching. Please do not connect the product to any device that requires Oms UPS, such as data servers and workstations. Please test and confirm the compatibility before using the product. We recommend that you only

The product supports EPS function. When you connect the grid power to the AC Input Port of the product through an AC cable, you can power electrical devices through the AC Output Port (AC power will come from the grid and not the



4.11 Estimated Usage Time













$Wh \times \eta \times DOD + (\text{Load } W) = \text{Charging Time (unit:hour)}$

H = 90% (conversion efficiency)

DOD=80%-90% (determined by ambient temperature and discharge rate)

Load W = Your device power

Off-Grid Life

 Phone (Type-C) 11Wh/22 Times	 Laptop (Type-C) 60Wh/4 Times	 Switch (Type-C) 16Wh/15 Times	 Drone (Type-C) 22Wh/11 Times	 Camera (USB) 16Wh/15 Times
 Projector (AC) 50W/5 Hours	 Speaker (AC) 10Wh/24.8 Hours	 Car Fridge (DC) 60W/4.1 Hours	 WiFi-Router (DC) 10W/24.8 Hours	 Kettle (AC) 700W/0.3 Hours

5. FAQ (Frequently Asked

1. What kinds of devices can be powered by this product?

Such as Mobile Phones, Computers, Refrigerators, Rice cookers, Electric kettles, Lights and most household appliances and outdoor electricity.

2. What's the max power output of the AC output ports?

700W. You are advised to check the power of the appliances before use and ensure that the sum of the power of all loaded devices is less than the rated power.

3. Can this product be charged and discharged at the same time?

YES. The product supports simultaneous charging and discharging. When you plug the power supply of this product into the wall socket, the electronic device will be directly powered by the grid, not by the product battery. In the event of a power failure, the product will automatically switch to battery power within 30ms.

4. Why AC stop output when power station battery capacity less than 10% ?

Battery capacity :100%- 20% : AC output power is 700W,



Battery capacity < 20% : AC output power down to 300W,



Battery capacity < 10% : AC output power down to 100W or Shutdown AC output to avoid over

6. Storage and Maintenance

1. Please use or store the product in an environment temperature between **68°F to 86°F (20°to 30°C)** , away from water, heat, and other metal objects.
2. For long-term storage, please discharge the battery to **30%** and recharge it to **80%** every three months.
3. For safety, please do not store the product in an environment temperature higher than **113°F(45°C)** or lower than **14°F (-10°C)** for a long time.
4. If the remaining battery is less than **10%** after you finish using the product, please recharge it to **60%** before storing. If the product is left idle for a long time with severely low battery, irreversible damages may be caused to the battery cell and the product service life will be shortened.

7. Troubleshooting

Icon indicator	Name	State
• AC	AC Recharging	AC is recharging your power station
• DC	Solar/Car Recharging	Solar/Car is recharging your power station
	Bluetooth	Bluetooth is ON
	WiFi	WiFi is ON

Icon indicator	Problem	Solution
	AC Output Overload Protection	Normal operation will resume automatically once you remove the overloaded device and restart the product. Electrical appliances should be used within rated power.
• FAN	Low Temperature Protection	ON: Smart Cooling OFF: Normal Blink: Fan Failure
• TEMP	High Temperature Protection	The power supply temperature is over 140°F(60°C) , it can be resumed automatically after the battery cools down to 122°F(50°C) .
	Low Temperature Protection	When environment temperature is lower -13F(-25°C) , stop. The power supply can be resumed automatically after the environment temperature rises above -13F(-25°C) .
	F0	Error Code
	F1	
	F2	

8. FCC Warning

This device complies with Part 15 of the FCC Rules. Operation of the product is subject to the following conditions:

- (1) this device may not cause harmful interference.**
- (2) this device must accept any interference received, including interference that may cause undesired operation.**

Warning: 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, 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.

Attention: 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:

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

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm (0.65ft) between the radiator and your body.