BougeRV
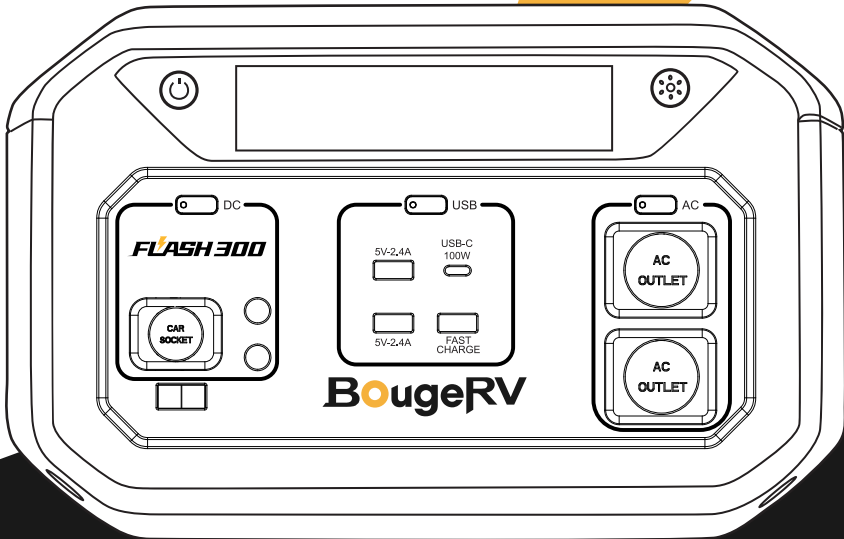
FLASH-300 Portable Power Station
User Manual

Warranty

Limited Warranty

BougeRV provides a one-year warranty for customers who purchase on BougeRV Amazon store and the BougeRV official website.

Warranty Period

The warranty starts from the date of purchase by the original purchaser. Please provide the screenshot of the order from Amazon or the website in order to affirm the warranty start date.

Tips

If there is any problem with the product, you can provide us with pictures and videos for confirmation. After the confirmation of the technicians, we will provide return and exchange services for you.

Customer support

✉	☎	🌐
service@bougerv.com	1-669-232-7427 | Sun-Thu 6PM-12AM(PST)	www.bougerv.com

Exclusions

BougeRV's warranty does not apply to:

· Product damage caused by the consumer not following the recommendations.

· Damage caused by disassembling the machine without authorization or maintained by a non-designated maintenance site.

· Products purchased neither on BougeRV Amazon store nor BougeRV's official website.

· This limited warranty does not apply to any battery cell or product containing a battery cell unless the battery cell has been fully charged by you within seven days after your purchase of the product and at least once every 6 months thereafter.

Table of Contents

Product Safety Guidelines

Product Use:

1. DO NOT expose the product to any liquids. Do not immerse the product in water. DO NOT leave the batteries out in the rain or near a source of moisture. Moisture in the device could cause short circuits, component failure, fires or even an explosion.
2. Using the product above 140°F (60°C) may cause fire or explosion. Using the product below 32°F (0°C) will severely affect the performance of the product. Allow the product to return to a normal operating temperature before using.
3. DO NOT use the batteries in strong electrostatic or electromagnetic environments. Otherwise, the control board of battery may malfunction and cause a serious accident during use.
4. Avoid collision. DO NOT place heavy objects on the machine.

Product Charging:

1. ONLY use BougeRV approved charging cables. BougeRV does not take any responsibility for any damage caused by using non-BougeRV charging cables.
2. When charging, please place the product on the ground with no flammable or combustible materials around.
3. To prevent accidents, never leave the the product unattended during charging.
4. DO NOT charge the product immediately after a long-time heavy load because of the overheated battery. Cool the battery down to normal temperature before charging it.

Product Storage:

1. If a low-battery warning appears, charge the product before storing it. Otherwise, long-term storage may cause damage to the batteries. Batteries in the product will enter hibernation mode if they are depleted and stored for a long time. Recharging the product can bring the battery out of hibernation.

2. DO NOT place the product near a heat source, such as a car in direct sunlight, a fire source, or a heating stove.

3. Store the product in dry environment. Please keep the product away from water.

Product Maintenance:

1. Temperature for normal use and storage of this product is 32°F to 105°F (0°C to 40°C) Cold temperature (below freezing) can affect the unit's battery capacity due to the chemical characteristics of the battery. Keep the power station within the environment temperature range, 32 to 105°F (0 to 40°C) to prolong battery life.

2. If the product is not used for a long time, the battery life may be reduced.

3. Please keep FLASH-300 fully recharged at least once a month, 0%-100%. Please recharge the battery, when the capacity of the display is less than 20%.

Travel Notice:

Do Not bring this product on flights.

Specifications

Input Ports

AC Charge	**100-115V, 600W Max**
Solar Charge	**12-45V, 25A 600W Max**
USB-C Charge	**20V/5A, 100W Max**

Output Ports

AC (×2):	**50/60Hz Pure Sine Wave, 600W Max**
USB-A (×2)	**5V/2.4A, 12W**
USB-A QC3.0 (×1)	**5V/3A, 15W; 9V/2A, 18W**
USB-C	**5/9/12/15/20V, 5A 100W Max**
Cigarette Port	**13.5V/10A, 135W Max**
Wireless Charge	**5V/3A, 15W Max**

Environmental Operating Temperature

Operating Temperature	**32°F to 105°F**
Discharge Temperature	**14°F to 113°F**
Charge Temperature	**32°F to 113°F**
Storage Temperature	**32°F to 100°F**

Battery Info

Cell Chemistry	**Li(NiCoMn)O2**
Cycle Life	**700+ Cycles to 80% Capacity**

General Info

Net Weight	**6.6kg/14.6LBS**
Product Dimensions	**27*18*19inches**
Capacity	**286WH**
Certification	**FCC, PSE, ROHS, UN38.3**

Key features

The fastest power station source in the universe. AC/PV 600W Max Input, 0.5H Full Charge 0%-90%

Smart LED screen, what you see is real, let you know any condition of the FLASH-300.

AC frequency automatic identification, no need to manually switch, protect your appliance.

Reduce standby and running power, and the usage time increased by 10%-15% compared with the same capacity power stations.
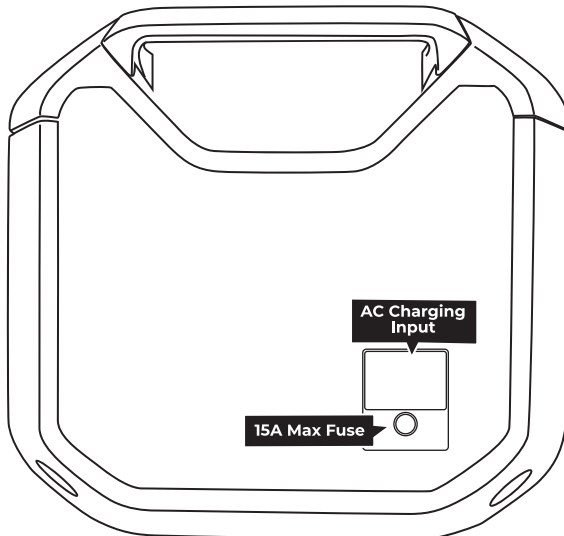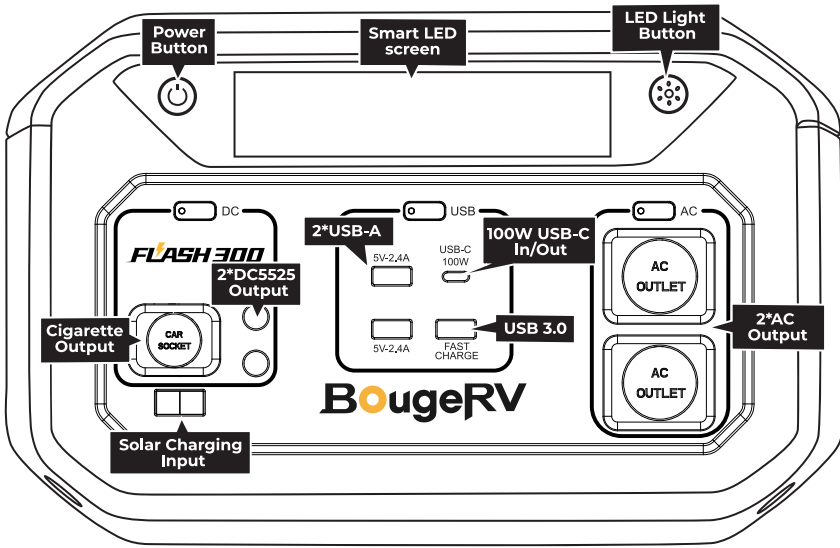
The infinitely variable speed fan, intelligently adjusts the speed according to the temperature and output power, keeping you away from the noise of the fan.

10 Error Codes + Triple Protection System to avoid potential safety hazards to the greatest extent.

Input / Output Ports

Power Button

Smart LED screen

LED Light Button

DC

USB

AC

FLASH 300

2*USB-A

100W USB-C In/Out

2*DC5525 Output

5V-2.4A

USB-C 100W

AC OUTLET

Cigarette Output

CAR SOCKET

5V-2.4A

USB 3.0

FAST CHARGE

AC OUTLET

2*AC Output

Solar Charging Input

BougeRV

AC Charging Input

15A Max Fuse

Operating instructions

Long press 2s to turn on/off the FLASH-300, short press to wake up / turn off the screen. (*After turning on the power, the other four buttons can be turned on normally.*)

Short press 1~6 times (Wake up screen+ambient light full bright/ half bright/ flashlight full bright/half bright/ SOS mode/ all lights off.)
Press 2s to turn off the LED light in any mode.

AC   Press 1s to turn on/off the AC port.

USB   Press 1s to turn on/off the USB - TypeC - Wireless port. (*Note: The wireless charging function needs to turn on the USB button.*)

DC   Press 1s to turn on/off the DC port.

AC
DC
60$_{Hz}$

How to switch frequency?
1. Its default frequency is 60Hz, and the frequency is automatically recognized and saved after the AC is connected.
Turn on the AC button again, the frequency switched successfully.
2. Press the AC and DC button at the same time for 1s, release the buttons after seeing the frequency flicker, done.

Display Screen
Whether your are charging or discharging, the screen will turn off automatically after 30s. Short press any five buttons can wake up the display screen

ECO Function
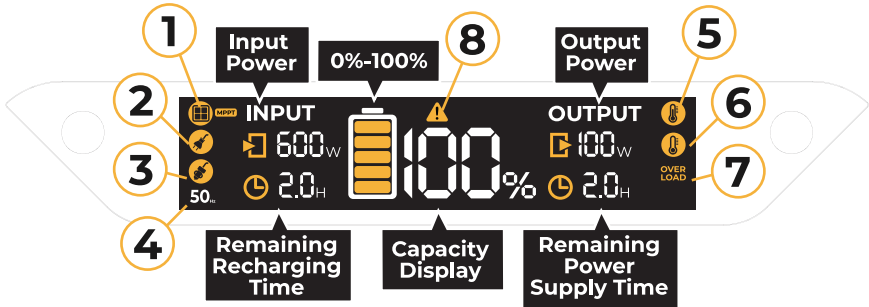Turn off automatically after 5 minutes while there is no input or output.
USB port turns off automatically while the output is lower than 3W for one hour.
DC & AC port turn off automatically while the output is lower than 5W for one hour.

Alarm Function
All abnormal states are accompanied by error codes or buzzer warnings. FLASH-300 can resume work after the abnormality is cancelled automatically.

Smart Display

1 Input Power

8 0%-100%

5 Output Power

2 INPUT MPPT

6

3

7

4 50Hz

600W

2.0H

100%

OUTPUT 100W

2.0H

Remaining Recharging Time

Capacity Display

Remaining Power Supply Time

1

MPPT

It lights up when FLASH-300 is recharging from solar panel.

2

It lights up when FLASH-300 is recharging from wall outlets.

3

It lights up when FLASH-300 is charging other devices from car charging port.

4

50Hz

It shows the current electricity frequency of the unit.

5

It lights up when the inverter over 80℃/176°F.

6

It lights up the ambient temperature is below 0°C / 32°F when charging & below -20°C / -4°F when discharging.

7

OVER LOAD

It lights up when the electronic devices overall are drawing over 605W Watt.

8

+ OUTPUT E02

It will display 10 codes under different abnormal states.

AC Charging

BougeRV's fast-charge technology is specifically for AC charging, offering 600W of max input power. In case of unusual situations (ex. thunderstorm weather) where the AC input current remains higher than 15A, the charging input port will initiate the self-protection function and the overload protection switch will automatically. After confirming the charging environment is safe and the product is normal, you can press the overload protection switch to resume recharging.

overload protect switch
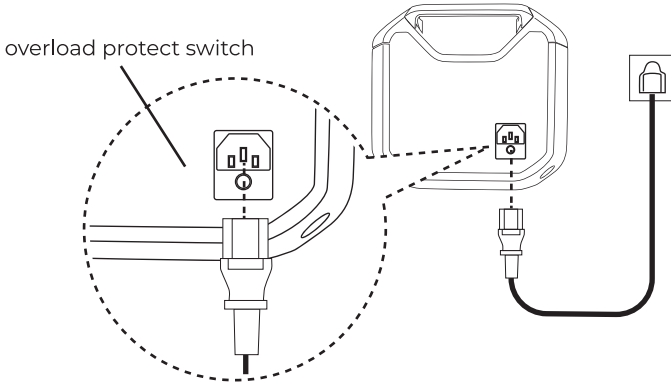
Car Charging

You can recharge the product through the Car Charging Input Port. It supports 13.5V car chargers and 10A Max charging current. To avoid failure to start due to insufficient car battery, please confirm that the vehicle has been started before using the car charger. BougeRV takes no responsibility for any loss or damages caused by failing to follow instructions.
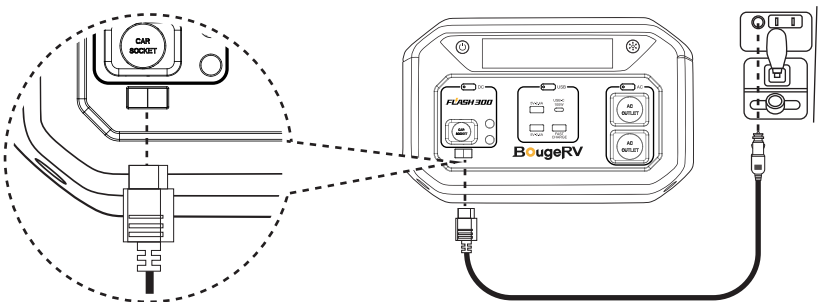
PV Solar Charging

● Support solar panels to be connected in series and parallel. The total voltage after series connection must be less than 45V. The total current after parallel connection must less 25A.

●The built-in MPPT controller automatically recognizes the input voltage of the solar panel and tracks the maximum voltage to ensure max power input.
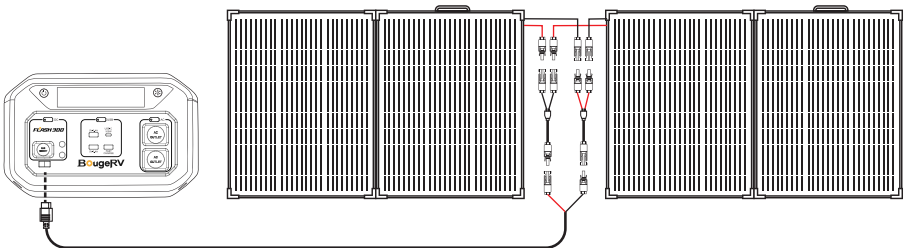
How to charge in series?

The panel can be wired in series to produce the expected voltage output.
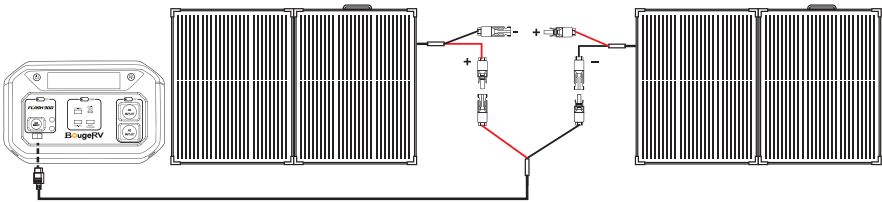
How to charge in parallel?

The solar panel can be wired in parallel to produce the expected current output with the solar parallel connector.

How to charge in series-parallel?

Using four 200w panels to connect in series and then in parallel, FLASH-300 support 600W Max Input, 0-90% for half an hour.

The output of solar panels is affected by light and the angle of position, so there will be a loss of about 20%, if you want to achieve the maximum input of 600W, we recommend you combine with 800W solar panels.
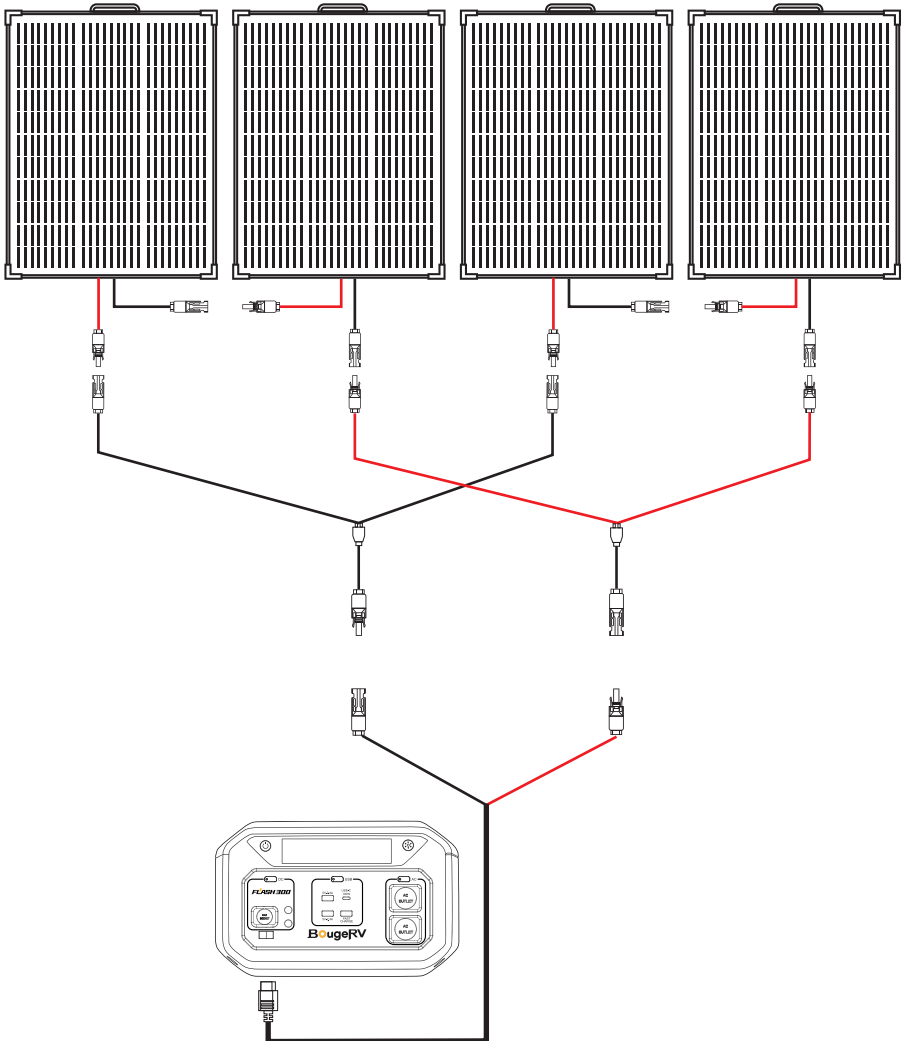
Recharge Time

AC Charging:	Solar Charging:	Car Charging:	USB-C Charging:
Around 0.5H, 0-90%	Around 0.5H, 0-90%	Around 2.4H, 0-90%	Around 3H, 0-90%

Running time

Phone (3200mAh)	Radio (10W)	Fan (10W)
About 20 Charges	About 20 Hours	About 20 Hours

Camera (15Wh)	Game console (15W)	LED Lights (20W)
About 16 Charges	About 15 Hours	About 12 Hours
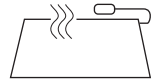
Tablet (28.6Wh)	Drone (30Wh)	Electric Blanket (40W)
About 9 Charges	About 9 Charges	About 6 Hours

Laptop (50Wh)	Car Fridge (50W)	TV (140W)
About 5 Charges	About 7 Hours	About 2 Hours

Error Code
& Troubleshooting

OUTPUT ⏏ P01

| Error Code & Troubleshooting			
Module	**Error Code**	**Explanation**	**Troubleshooting**
INVERTER	E01: Overload Protection	The output power over 605W for 1 minute, inverter turns off, overload character flashes, buzzer alarms; output power over 720W for 30 seconds, inverter turns off; output power over 900W for 1 seconds, inverter turns off	When the code appears, please cut off the appliance in time, the error will disappear immediately, please insert the appliance which rated power less than 600W.
	E02: Over-Temperature Protection	Cut off the output when the temperature is above 176°F, and automatically recovers when the temperature is below 140°F	Please discharge it under the suitable temperature environment (14°F to 113°F)
	E03: Over / Under-Voltage Protection	When voltage of the inverter is over 140 or below 90V, it will turn off	Step 1: Turn on the power station again and observe whether the error code is cancelled. Step 2: If the code still exists, please contact our customer service
	E04: Short Circuit Protection	FLASH-300 detects that there is a short circuit in the electrical appliance	Step 1: Cut off the output immediately. Step 2: Turn on the power station again and observe whether the error code is cancelled. Step 3: If the code still exists, please contact our customer service.
	E05: AC / Under-Voltage Protection	When the voltage of AC is below 85V, the current of the AC input will drop from 25A to 10A.	Please use the AC charging cable and compliant outlet provided by us for charging, and do not modify the charging cable and outlet without the guidance of a professional electrician.

Error Code & Troubleshooting

Module	Error Code	Explanation	Troubleshooting
PV	P01: Over / Under-Voltage Protection	When the PV input voltage is over 45V or less than 11V, turns off the PV input	Please check whether the voltage is too high due to too many panels connected in series. If you use a single panel to charge, please make sure the voltage is over 11V.
	P02: Overcurrent Protection	When the PV input current is over 35A, it will turn off the PV input	Please check whether the parallel connection of multiple panels leads to excessive current. It is recommended to increase the series connection and reduce the parallel connection.
	P20: Overheating Protection	When the temperature of the PV module is over 158°F, it will turn off the PV input	Step 1: Stop charging and observe whether the error code disappears after the temperature drops Step 2: If the code still exists, please contact our customer service
AC	C02: Overcurrent Protection	When the AC charging input current is over 26A, turn off the input	The fuse will pop up automatically. If you want to continue charging, please press the fuse button.
	C08: Overheating Protection	Cut off the input when the temperature is above 167°F, and automatically recover when the temperature is below 131°F.	Please charge it under the suitable temperature environment (32°F to 113°F)

Package List

Check the package and make sure you receive all accesso-

ries. If any of these is missing, please feel free to contact us

via **service@bougerv.com**

1. BougeRV Flash 300 Portable Power Station*1
2. AC-AC Charging Cable*1
3. Car Charging Cable*1 (Cigarette to Anderson)
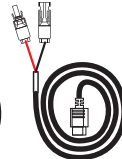4. Solar Charging Cable*1 (MC4 to Anderson)
5. User Manual*1

FAQ
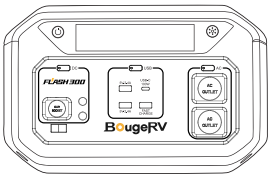
Q1: Can the FLASH-300 be charged while using?

A: Yes, the FLASH-300 allows pass-through charging BUT we don't recommend you to do that which will bring damage to the battery.
Tips: Using appliances under 100% full battery, appliances will only use the AC and the capacity of the power station will not decrease.

Q2: Why is the remaining usage time on the display inconsistent with the actual use?

A: Because the power of the appliance is in a dynamic fluctuation range, the software algorithm is calculated based on the real-time power, the actual use time will have a certain deviation from the display screen, this is a normal phenomenon.

Q3: What should I do if I want to use the car cigarette port to charge the FLASH-300?

A: You can use the cigarette to Anderson adaptor we provide, and then insert the Anderson into the FLASH-300, around 135W Max.

Q4: What kind of solar panel should I buy to charge the FLASH-300?

A：We recommend you to buy the BougeRV Portable Solar Panel to charge FLASH-300. If you want to know more specifications, you can search on Amazon using keywords: **BougeRV Solar Panels**.

Q5: Where can I find any video about the operation and use of FLASH-300？

A: Search BougeRV on YOUTUBE, enter our official channel, and search for FLASH-300

Q6: What matters should I pay attention to in daily use?

A:
• Please keep FLASH-300 fully recharged at least once a month, 0%-100%. Please recharge the battery, when the capacity of the display is less than 20%.
• Ensure that the operating temperature of the FLASH-300 is within 0-40 degrees.
• The low and high temperatures will reduce the battery lifespan.
• Please ensure that the storage environment of the FLASH-300 is dry and keep it staying away from direct sunshine and flammable sources.

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