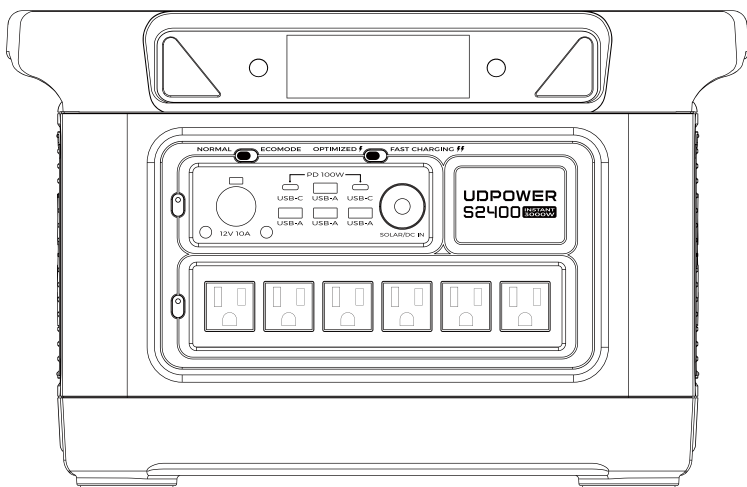


UDPOWER

AS2400

User Manual



Disclaimer

Read this manual carefully before using the product and follow the safety guidelines for proper use of this product. After reading this manual, keep it properly for future reference. To the extent permitted by law, improper handling of this product may directly or indirectly result in the risk of damage to the product, personal injury, or property damage. Once you start using the product, you are deemed to have understood, recognized, and accepted all the terms and contents of this document. The user undertakes to be responsible for his/her behavior and all consequences arising from that place. UDPOWER is not liable for any damages arising from the user's failure to use the product by this User Manual.

In compliance with laws and regulations, UDPOWER reserves the right of final interpretation of this document and all documents related to the product. This document is subject to update, revision and termination without prior notice. Please visit UDPOWER's official website or follow the UDPOWER's social media account to obtain the latest product information.

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Specifications

General Information

Model	AS2400
Dimension	15.8 x 9.5 x 10.1 inches (402*242*257 mm)
Capacity	2083Wh
Battery Model	60130, 14 skewers (44.8V 46.5Ah)
Testing and Certification	UL2743, FCC, ROHS, UN38.3
Weight	Approximately 40.8 lbs (18.5 kg)

Output Specifications

Car cigarette lighter Output	12V  10A MAX
DC5521 Output	12V  10A MAX
UPSPRIME:	Equipped with UPS mode, response time ≤10ms
Wireless Charging:	15W MAX
AC Output (6PCS)	Pure Sine Wave-120V~60Hz, 2400W
USB-A Output (4PCS)	5V  3A 5V  2.4A 9V  2A
USB-C Output (2PCS)	5V  3A 9V  3A 12V  3A 15V  3A 20V  5A PPS: 3.3-21.0V  3A

Input Specifications

AC INPUT	120V~60Hz, 15A MAX
DC7909	12V-50V  10A MAX
Solar Charging Input	12V-50V  10A MAX

Battery Specifications

Material	Brand New LFP Battery
Cycle Life	80%+ capacity after 3000 cycles

Operating Temperature

Ambient Temperature for Discharging	-4°F ~113°F (-20°C ~ 45°C)
Ambient Temperature for Charging	23°F ~104°F (-5°C ~ 40°C)
Ambient Temperature for Storage	32°F ~104°F (0°C ~ 40°C)

Safety Instructions

Usage

- Due to the special nature of the product, please place the product out of reach of children, special people need to be used under the protection of a guardian.
- This product contains a built-in battery, it is strictly prohibited to disassemble in any way, violent impact, or extrusion.
- Do not use the product in a strong static electricity or strong magnetic field environment.
- Do not short-circuit or damage the product with wires or metal objects.
- It is strictly prohibited to insert fingers or foreign objects into the product or use sharp objects to puncture the product, to avoid abnormal operating conditions leading to short-circuit or damage to the product.
- It is strictly prohibited to insert fingers or foreign objects into the product or use sharp objects to pierce the product to avoid abnormal operating conditions that may lead to short circuits or damage.- Do not expose the product to fire or use the product at extremely high temperatures or under short-circuit conditions. If the product catches fire, use fire extinguishing equipment in the following recommended order
- If the product catches fire, use fire extinguishing equipment in the following recommended order: water or water mist, sand, fire blanket, dry powder, and carbon dioxide fire extinguisher.
- It is strictly prohibited to block the fan during use forcibly. It is recommended to use the product in a dry and ventilated place and make sure the heat sink is not blocked.
- It is strictly prohibited to connect the product with a damaged power cord.
- If the connector of the product is dirty, please use a dry cloth to wipe it, do not use chemical or spray cleaner.- Do not allow the product to come into contact with any liquids, and do not use the product in the rain or in extremely humid environments.
- If the product accidentally falls into water, place it in a safe open area and keep it away from the product until it dries.
- After drying, please do not continue to use the product directly, please get in touch with the UDPOWER official after-sales service team or follow the waste method of this instruction manual - properly dispose of the product.
- Please get in touch with the UDPOWER after-sales service team or follow the disposal method in this manual to dispose of the product properly.
- Avoid strong impact or dropping the product from a high place, if an accident occurs, do not continue to use it, please contact the UDPOWER official after-sales service team. Please contact UDPOWER's official after-sales service team or follow the disposal method in this manual to dispose of the product properly.
- It is strictly prohibited to repair the product or replace parts/accessories that are not provided by the official company, if you need to repair the product or replace the parts/accessories, please contact
- If you need to repair the product or replace the parts/accessories, please contact the official UDPOWER after-sales service team.

Care and Maintenance

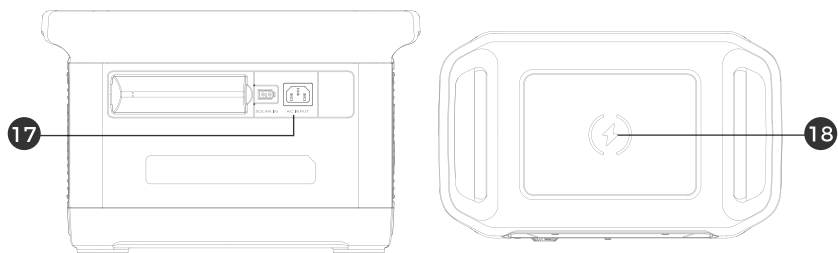
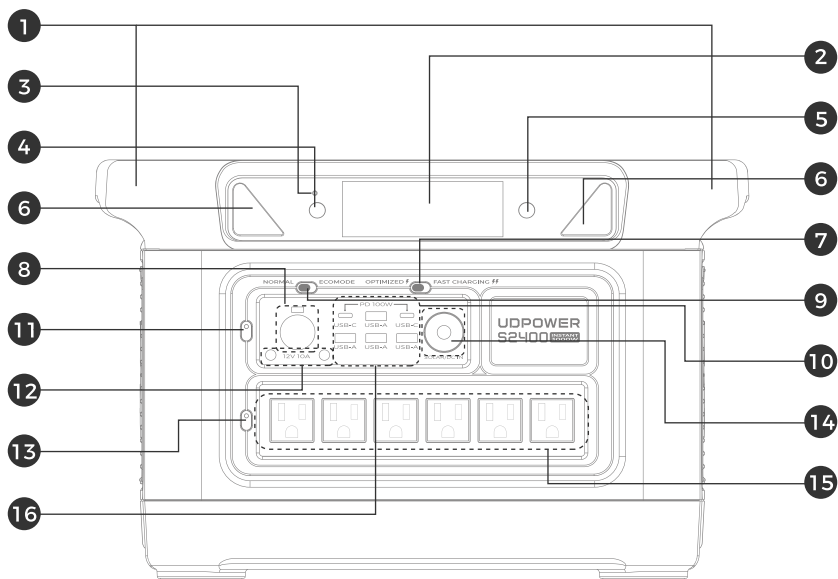
Please refer to this manual to turn on the battery care mode when the product shows the battery intelligent care prompt, to ensure the battery health is in the best performance state.

- If storing the product for a long period, please store it in a dry environment, the recommended storage environment temperature is 32°F~104°F (0°C ~ 40°C).
- Please charge and discharge the product at least once every 3 months (discharging to 30%, charging to 60%) to ensure the health of the battery.
- Before storing the product, please check the remaining power, if prompted low battery please charge it first, to avoid battery damage caused by long time low battery storage, which will affect the service life.
- If the product has been left unused for a long period, the product will enter deep hibernation mode, when using it again, you need to charge the product to exit the hibernation mode.

Disposal Guide

- Whenever possible, please make sure to discharge the batteries of this product thoroughly before placing it in the designated battery recycling bin, please refer to and follow the local laws and regulations on recycling/waste batteries for relevant details. If the product itself is not fully discharged due to a fault, please contact UDPOWER's official after-sales service team or a professional battery recycling company for further processing.

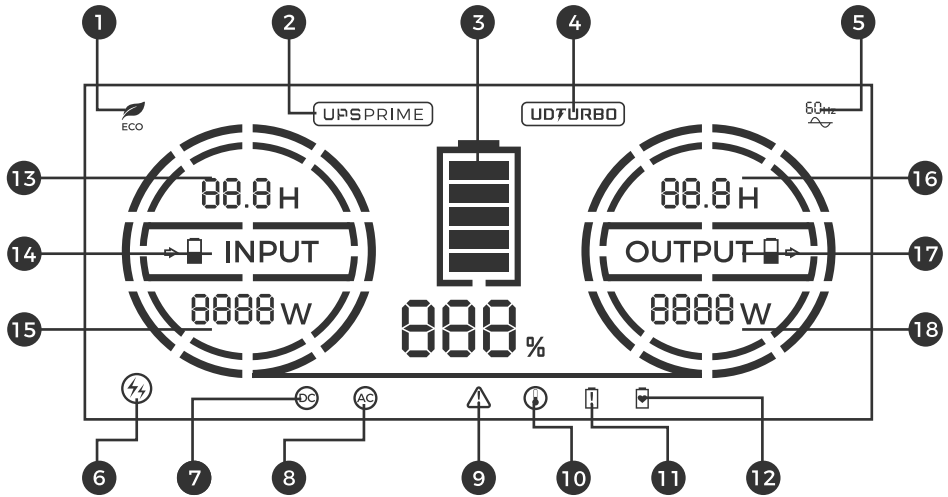
Product Details Overview



- | | | |
|---------------------------------------|------------------------------|---------------------|
| ① Handle | ⑦ Fast Charging Slide Switch | ⑭ DC Input Socket |
| ② LCD Screen | ⑧ 12V Car Charger Outlet | ⑮ AC Output Port |
| ③ Power Indicator | ⑨ Eco Mode Slide Switch | ⑯ USB A Port (4pcs) |
| ④ Main power Switch/
Screen Switch | ⑩ USB C Port (2pcs) | ⑰ AC Charging Port |
| ⑤ Light Switch | ⑪ DC Output Switch | ⑱ Wireless Charging |
| ⑥ Light | ⑫ DC5521 Output Port (2pcs) | |
| | ⑬ AC Output Switch | |

Product Details

LCD Screen



- | | |
|--|-----------------------------|
| 1 Eco Mode Indicator | 10 Temperature Warning |
| 2 UPSPRIME / Uninterruptible Power Supply(UPS) | 11 Battery Fault Notice |
| 3 Remaining Battery | 12 Battery Maintenance |
| 4 UDTURBO-Intelligent Power Boost | 13 Remaining Charge Time |
| 5 AC Output Frequency | 14 Input Indicator ➡ |
| 6 Fast Charging Indicator | 15 Input Power Rate |
| 7 DC Output | 16 Remaining Discharge Time |
| 8 AC Output | 17 Output Indicator ➡ |
| 9 Warning | 18 Output Power Rate |

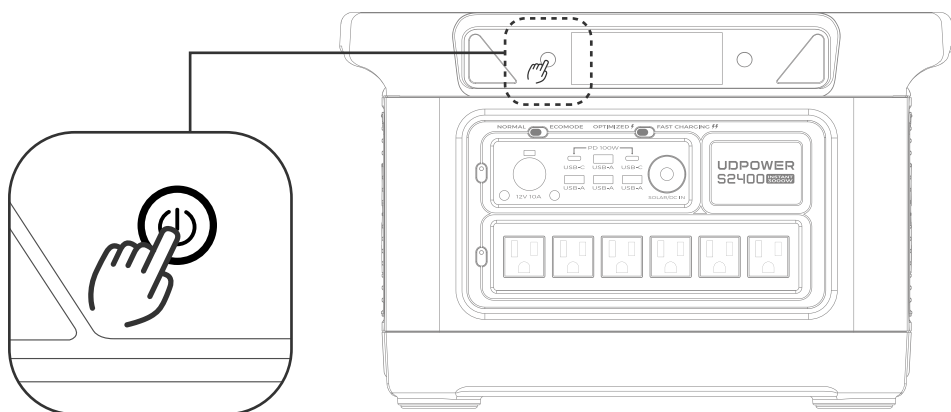
Getting Started

Power On/Off

Press the  main power button once to turn on the product, then the LCD screen lights up and the main power indicator becomes breathing white;

Press and hold the  main power button (3 seconds) to turn off the product. The display will count down and flash for 5 seconds and then turn off.

After the product is turned on, press the  main power button once to turn on/off the LCD screen.

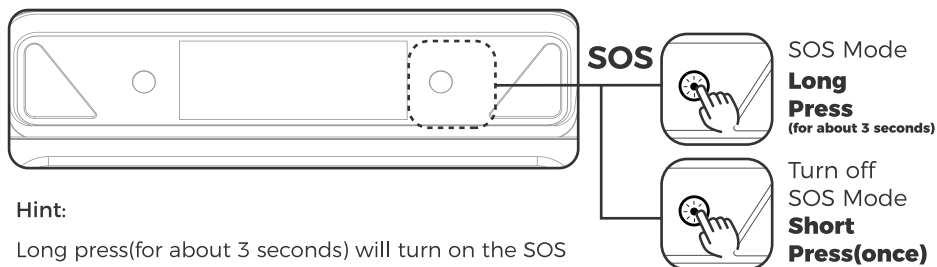
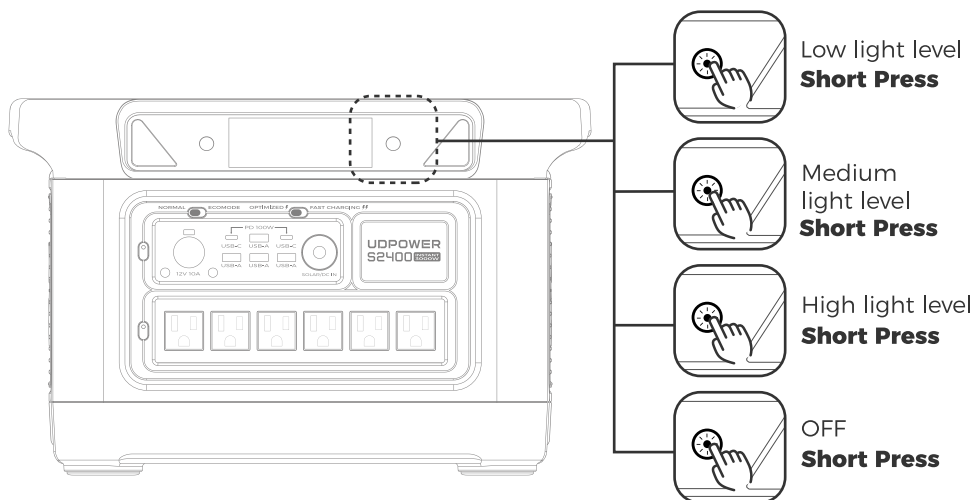


Notes:

- If the product is not used for 5 minutes, it will enter a hibernation state with the LCD screen gone off, click any button to turn on the screen (ECONOMODE Status will adjust to 2 minutes).
- * After the product is turned on, the product will automatically shut down if there is no load and no operation for 20 hours.

Getting Started Light Control

After the product is turned on, press the  button once to turn on the light, The default brightness is 30%. Click the  button again will change the brightness. (30% low light level→ 60% medium light level→100% High light level→ OFF)



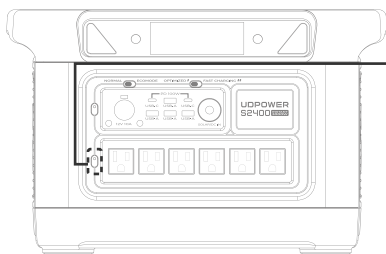
Hint:

Long press(for about 3 seconds) will turn on the SOS Light, short press again will turn off the light.

Getting Started output

AC Output

After the product is turned on, press the "AC output switch" once to turn on their corresponding AC output sockets; Press again to turn them off.



- Press the button once to turn them on
- Press Again to turn them off

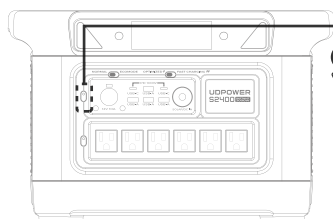
Notes:

· If you need to switch the AC output frequency, please press and hold the AC switch for 10s while the AC output is on, when the 60Hz goes out and lights up again, it means the switching is successful.

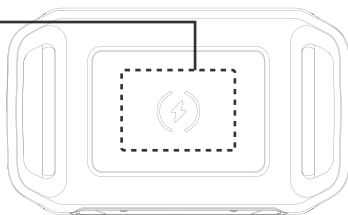
- *  Please check the rated frequency of the electrical equipment before use, incorrect frequency setting will affect or damage the electrical appliances. The default setting for U.S. specification products is 60Hz, which is the same as utility power.

DC Output

After the product is turned on, press the "DC output switch" once to turn on car charging/DC5521/USB-A/USB-C/Wireless Charging output port. Press again to turn them off.



- Press the button once to turn them on
- Press Again to turn them off



- * When the AC/DC output port is on, the system will intelligently shut down the output port if there is no operation without load for 20 hours.

Getting Started Charge Product

SAFETY WARNING:

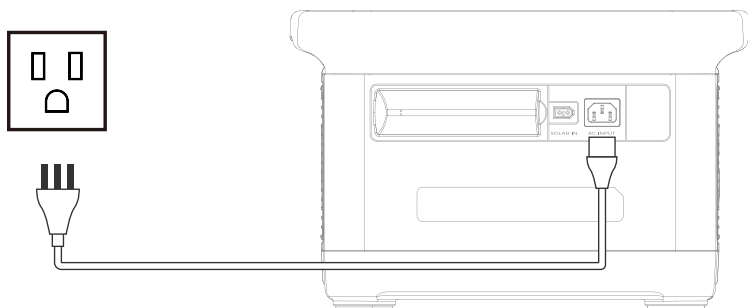
- Please use the original UDPOWER charging cable to ensure safety and efficiency during charging.
- During the charging process, please ensure that the surrounding area is well-ventilated, that no objects cover the sides of the product, and that the product is properly placed.

Notes:

- Before first use, please fully charge the product to ensure the battery is activated.
- During use, please pay attention to the remaining power of the product. When the battery level is lower than 10%, the screen will automatically light up, the battery indicator will be flashing at the same time, we recommend you to connect the charger as soon as possible.

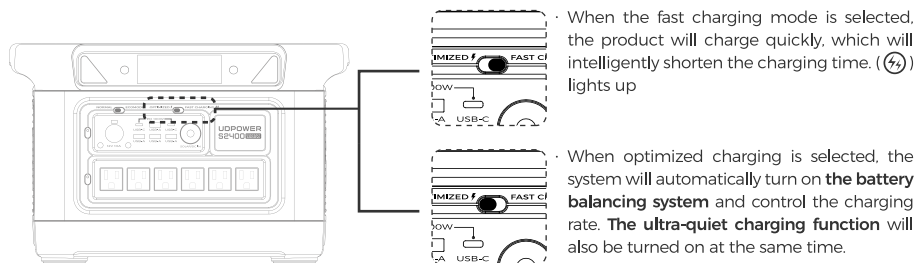
Grid Charger

- Use UDPOWER original charging cable to connect to the wall socket (mains power) and to the AC charging port on the back of the product. The product will automatically enter charging mode, the display will show the charging progress, and smart charging will automatically turn on.



· Charging Mode Switching

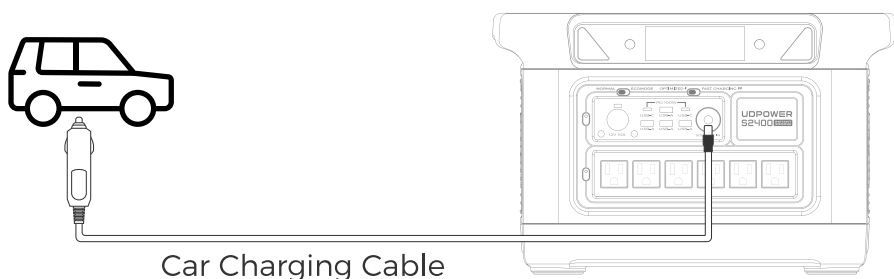
- This product is equipped with a smart charging mode function. You can switch between different charging modes through the slide button as shown.



- * Regularly turning on the optimized charging mode will effectively extend the battery life and continuously improve the discharge efficiency. The active battery balancing technology equipped with this machine has the same origin as that of new energy vehicles. Regular use will effectively protect the health of the battery.

Car Charging

- Please use the original UDPOWER car charging cable to connect the car 12V/cigarette lighter port and connect it to the DC IN port on the front of S2400, the display will show the charging progress.



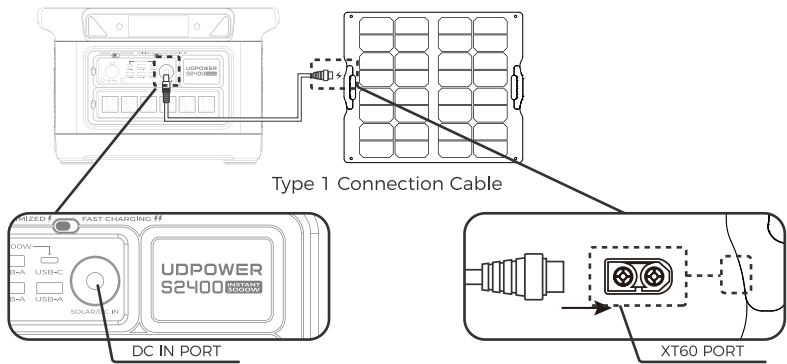
Notes:

- To avoid failure to start due to insufficient car battery, use the car charger after the vehicle is started. In addition, please make sure that the car charger cable is securely connected to the cigarette lighter.

Solar Charging

- Please use the original UDPOWER solar panel and the original XT60 connecting cable to connect as shown in the diagram below.
- S2400 can be charged with 75W-400W solar panels, please check according to the corresponding models, you can also refer to the user guide of the solar panels.

Solar Panel (Single Panel) Connection Method ①Using Type 1 Cable

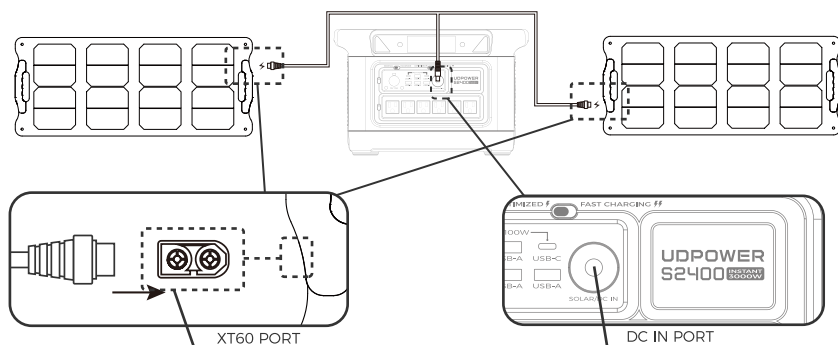


Notes:

- The S2400 supports up to 400W solar charging, and we recommend using the UDPOWER solar charging kit, properly connected according to the diagram below.
- The two cables are shipped randomly, so please connect the cables according to the corresponding way according to the actual received cables.

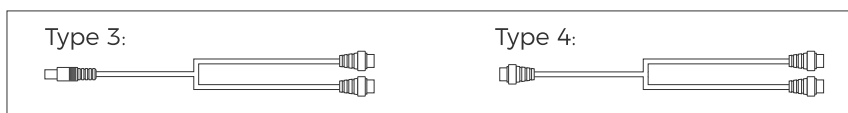


· Dual Solar Panel Charging Kit-Connection Method 1- Type 3 Cable



Notes:

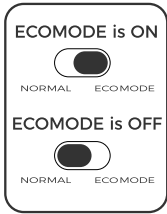
- * Please refer to the solar panel manual or operation video for detailed operation of the solar panel.
- * The solar charging kit is available at the official website or UDPOWER authorized dealers and can provide technical guidance.
- * The two cables are shipped randomly, so please connect the cables according to the corresponding way according to the actual received cables.



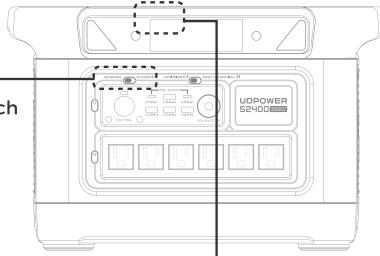
Getting Started ECOMODE-Energy Saving

After the product is turned on, slide the switch to ECOMODE, and the screen will light up “” that is to open the energy-saving mode, slide to the left will return to the normal mode.

ON OFF

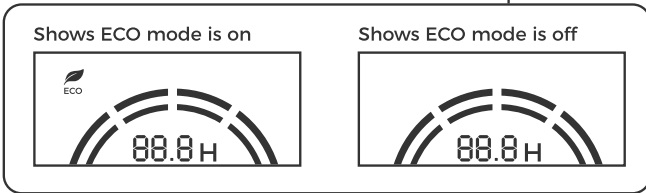


Switch



Display

ECO-Energy Saving



ECO Mode:

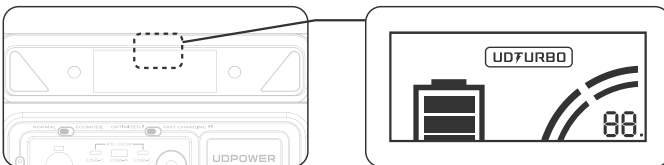
1. When AC is turned on with no load, the output will automatically shut off after 2 hours.
2. When DC is turned on with no load, the output will automatically shut off after 4 hours.
3. When both AC and DC are turned on, the above logic still applies.

Normal Mode:

1. When AC is turned on with no load, the output will automatically shut off after 4 hours.
2. When DC is turned on with no load, the output will automatically shut off after 20 hours.
3. When both AC and DC are turned on, the above logic still applies.

Getting Started UDTURBO

All UDPOWER products feature UDTURBO technology with a high-power mode. The S2400's AC output port delivers instantaneous peak power up to 3000W. When the icon  illuminates, it indicates that the UDTURBO function has been intelligently activated.

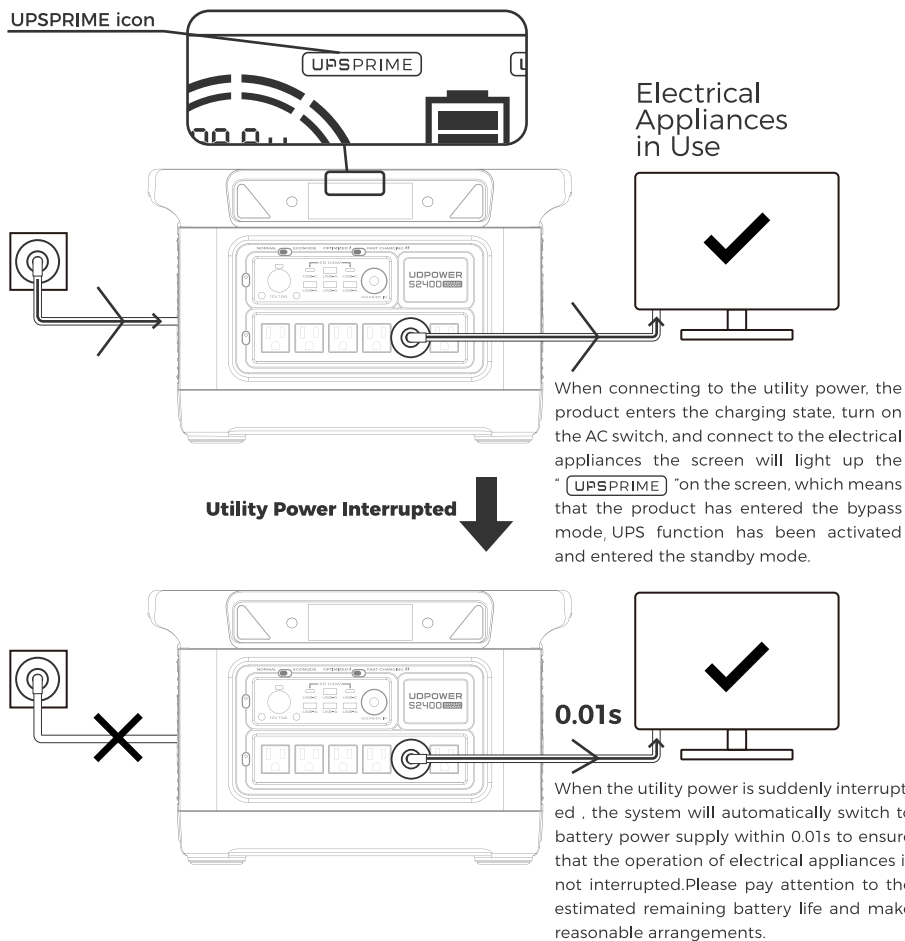


Notes:

- This feature is turned on by default, which will improve user experience and will not have any negative impact on the product. There is no need to turn it off.

Getting Started UPSPRIME Uninterruptible Power Supply (UPS)

This product is equipped with UPSPRIME technology, it is the Uninterruptible Power Supply (UPS) function, when you use the utility power to charge this machine and turn on the AC switch, the electrical appliances can get the direct power supply (i.e., bypassing direct power, power supply comes from the grid, not from the battery) through the AC output socket port of this product, when the grid suddenly cuts off the power supply, this product will be automatically switched to the battery power supply mode within 0.01s, so as to protect your uninterrupted power demand.



Notes:

* UPSPRIME™ is a professional-grade UPS feature with a switchover time of $\leq 10\text{ms}$ (0.01s), but it is recommended that you test the compatibility of the feature with the covered product several times before using the feature to ensure that UPSPRIME™ can protect your power needs.

FAQ

? Q1: What is the maximum output power of the AC output port?

! A1: This product supports continuous stable discharge for devices up to 2400W. This capability is compatible with 99% of electrical appliances on the market. In rare cases where the output port is incompatible with a device, the product will intelligently regulate output. Some appliances draw high instantaneous power during startup; this device can handle peak power surges up to 3000W.

? Q2: Can the product be charged and discharged at the same time?

! A2: Yes, this product supports charging and discharging at the same time, and supports charging and discharging in the case of solar charging to support different usage scenarios.

? Q3: Can the product power a CPAP?

! A3: Yes, but please pay attention to the remaining power and the remaining usage time before use.

? Q4: Does the product lose power when I forget to turn it off?

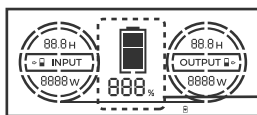
! A4: If you forget to turn off the product, the product will be intelligently turned off after 20 hours of no operation. This product is equipped with an intelligent BMS with 0 power loss, and the exclusive intelligent BMS technology supports ultra-low power standby.

? Q5: Does the product make noise during use?

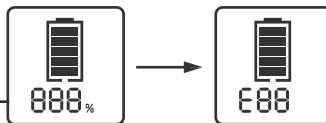
! A5: This product has passed the air flow test and is equipped with an ultra-quiet fan, which produces very little noise, lower than that of general household appliances, and can ensure powerful performance output while being quiet.

Troubleshooting

*indicator area



*indicator display changes



AC Output Overload

E01

Display



flashing

Solution

Disconnect overloading devices and restart the product to resume normal operation. The sum power of loaded electrical appliances must not exceed the rated power. (for the power limit of electrical appliances in UDTURBO, please refer page13)

DC Output Overload

E02

Display



flashing

Solution

Disconnect overloading devices and restart the product to resume normal operation.

Intelligent Protection

E03

Display



flashing

Solution

Ensure that the air inlet and outlet of the product are unobstructed. RESTART the product to resume normal operation after the temperature decreases.

Low Temperature Alert

E04

Display



flashing

Solution

RESTART the product to resume normal operation after the product warms up.

Troubleshooting

Charging Overload

E05

Display



flashing

Solution

Remove the charging cable and normal operation will resume automatically after restart.

Under Voltage

E06

Display



flashing

Solution

The battery voltage is too low for normal operation, please connect the charger for the product and be patient.

Battery Fault

E07

Display



flashing

Solution

Please press and hold the power button to restart the device. If the problem is still not solved, please contact the after-sales team for overhaul.

System Communication Failure

E08

Display

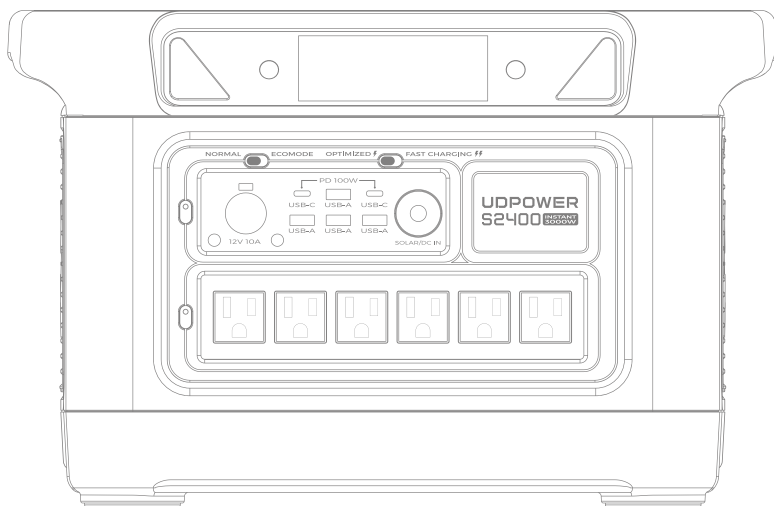


flashing

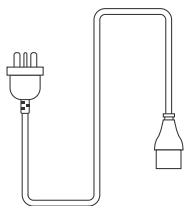
Solution

Please press and hold the power button to restart the device. If the problem is still not solved, please contact the after-sales team for overhaul.

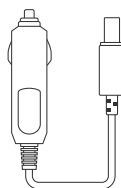
WHAT'S IN THE BOX



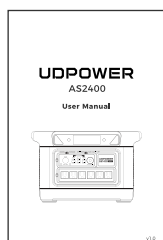
AS2400



Original Charger



Car Charging Cable



User Guide

Product Details

About Warranty

The warranty applies to original products and accessories purchased from UDPOWER official stores and distributors. UDPOWER will strive to ensure the user experience and ensure that material and process defects do not occur. Please refer to the official user manual, technical specifications and other published product guides and materials to use the official products and accessories. If the product fails, we will provide after-sales service for qualified products and accessories during the warranty period. If the product encounters any use problems during the warranty period, You can contact our after-sales team at support@udpwr.com or the after-sales section of the official website.

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- **This manual is subject to change without prior notice.**
 - **You can check the latest version at UDPOWER's official website.**
 - **If you have any questions or suggestions about the instructions, please contact us through the following contact information.**
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- **Need Help? We're Here for You.**

Whether you need parts, assembly help, technical support, or warranty service, our team is ready to assist.

- **Contact our support team based on where you purchased:**

Purchased from UDPOWER website: support@udpwr.com

Purchased from Amazon US: amzsupport@udpwr.com

- **For more self-help resources:**

Visit our official website for manuals, tutorials, and updates:

🌐 <http://www.udpwr.com>

- **📍 UDPOWER Inc.**

300 Delaware Avenue Suite 210, Wilmington DE, 19801
