



ROMOSS®

## Portable Power Station

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**S300**

**FCC ID: 2A6QM-RM300**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Warning:** Changes or modifications to this unit 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 and, 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. 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:

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

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

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## DISCLAIMER

Before using the product, thoroughly and carefully read the User Manual to ensure correct usage. Keep the User Manual for future reference. Improper operation of the product may result in serious harm to you, others, or cause product damage and property loss. By using the product, you indicate that you have understood, recognized, and accepted all the terms and conditions outlined here. Users agree to take full responsibility for their actions and the consequences that arise. ROMOSS assumes no responsibility for losses caused by user failure to follow the instructions in the User Manual.

While adhering to laws and regulations, ROMOSS reserves the final right of interpretation for this document and all documents related to the product. The User Manual is subject to updates, revisions, or termination without prior notice. For the latest product information, please visit the official ROMOSS website.

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# Specifications

## ROMOSS (RM300) Specifications

### General Specifications

Model	RM300
Battery type	LiFePO4 Battery
Rated energy of lithium battery	256Wh 12.8V 20Ah (80000mAh 3.2V)
Net weight	Approx. 3.95 kg
Dimensions	253 mm×164 mm×169 mm
Charge ambient temperature	0°C~40°C
Discharge ambient temperature	-10°C~40°C
Storage ambient temperature	-20°C to 45 °C (optimal: 20°C to 30°C)

### Output Specifications

AC output (×1)	110-130 V~50 Hz/60 Hz, 2.73A(Total:300W)
USB-A output (x2)	5V==3A, 9V==2A, 12V==1.5A (Dual-Port 36W Max)
Type-C output (×1)	5V==3A, 9V==3A, 12V==3A, 15V==3A, 20V==3A (60W Max)
Cigar lighter output (×1)	12V==10A (120W Max)
Wireless charging output	15W
Total	360W

### Input Specifications

AC input	110-130 V~50 Hz/60 Hz, 4A Max
Type-C input (×1)	5V==3A, 9V==3A, 12V==3A, 15V==3A, 20V==3A (60W Max)
DC input (XT60)	12-30V==8A (100W Max)

### Battery Specifications

Cell material	LiFePO4 (lithium iron phosphate battery)
Battery life cycle	80%+ capacity is remained after 3,000 cycles
Protection type	High temperature protection, low temperature protection, over-discharge protection, over-charge protection, overload protection, short circuit protection, and over-current protection

### Operation Temperature

Optimal operating temperature	68°F to 86°F/20°C to 30°C
Discharge ambient temperature	14°F-104°F/-10°C to 40°C
Charge ambient temperature	32°F-104°F/ 0°C-40°C
Storage ambient temperature	14°F-104°F/-10°C to 40°C (optimal: 68°F to 86°F/20°C to 30°C)

## Safety Instructions

### Usage

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1. Do not use the product near heat sources, such as fires or heating furnaces.
2. Avoid contact with liquids. Do not immerse the product in water or expose it to moisture, and try to avoid using it in rainy or humid environments.
3. Avoid using the product in environments with strong static electricity or magnetic fields.
4. Do not disassemble the product in any way or puncture it with sharp objects.
5. Avoid using wires or other metal objects that may cause a short circuit.
6. Use only official components and accessories. If you need to replace any parts, please visit official ROMOSS channels to find relevant information.
7. Adhere to the specified operating environment temperature mentioned in this User Manual when using the product. Excessive heat may lead to fire or explosion, while extremely low temperatures can significantly reduce product performance or even cause it to stop working.
8. Do not stack heavy objects on the product.
9. Do not forcibly lock the fan during product use and avoid placing the product in unventilated or dusty areas.



Note

To ensure safety, the product is only applicable for usage in places with an elevation under 2,000 m climate conditions.



10. Ensure that the product is not subjected to impacts, falls, or severe vibrations during use. Securely fasten the product during transportation to prevent damage. If the product is severely damaged, immediately power it off and discontinue use.
11. If the product accidentally falls into water while in use, place it in a safe, open area and keep a distance until it is completely dry. Do not use the product again after it has dried, and follow the "disposal" method outlined in this document. In case of a fire, it is recommended to use fire extinguishers in the following order: water or water mist, sand, fire blanket, dry powder, and carbon dioxide fire extinguisher.
12. Clean the ports of the product using a clean cloth or tissue.
13. Place the product carefully to prevent damage from tipping over. If the product is overturned and severely damaged, immediately power it off, place the battery in an open area away from flammable materials and people, and dispose of it in accordance with local laws and regulations.
14. Keep the product out of the reach of children and pets.

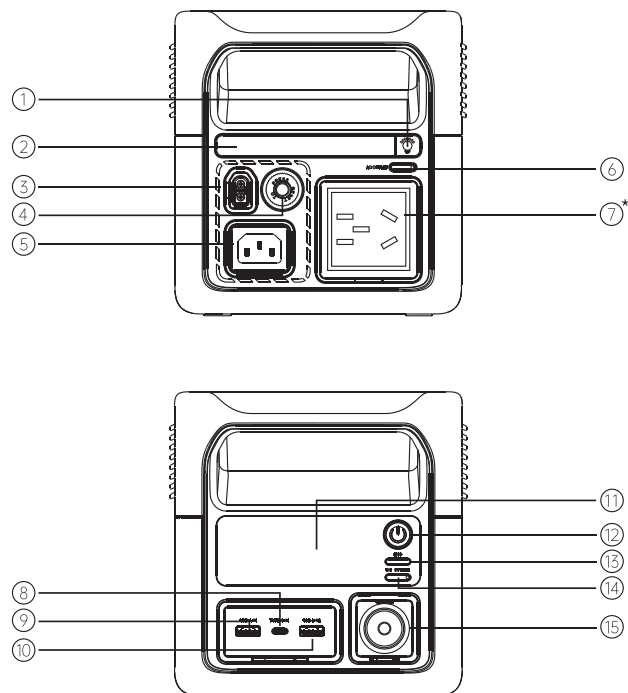
### Disposal

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1. If conditions permit, ensure that the battery is fully discharged before disposing of it in a designated battery recycling bin. The product contains batteries with hazardous chemicals; therefore, it is strictly prohibited to dispose of it in ordinary trash cans. For more details, follow to local laws and regulations regarding battery recycling and disposal.
2. If the battery fails to be fully discharged due to a product failure, do not dispose of the battery directly in a battery recycling bin. Contact a professional battery recycling company for further processing.
3. Dispose of over-discharged batteries as they cannot be recharged.

## Beginner's Guide

### Product Overview

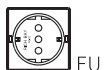


- |                                |                             |                             |
|--------------------------------|-----------------------------|-----------------------------|
| 1. Lighting switch             | 7* AC output port           | 13. ECO mode switch         |
| 2. LED lamp                    | 8. Type-C input/output port | 14. DC output switch        |
| 3. DC input port               | 9. USB-A1 output port       | 15. Car Charger output port |
| 4. AC input overload protector | 10. USB-A2 output port      |                             |
| 5. AC charging input port      | 11. LCD screen              |                             |
| 6. AC output switch            | 12. Main power switch       |                             |

⑦\*



CN



EU



US

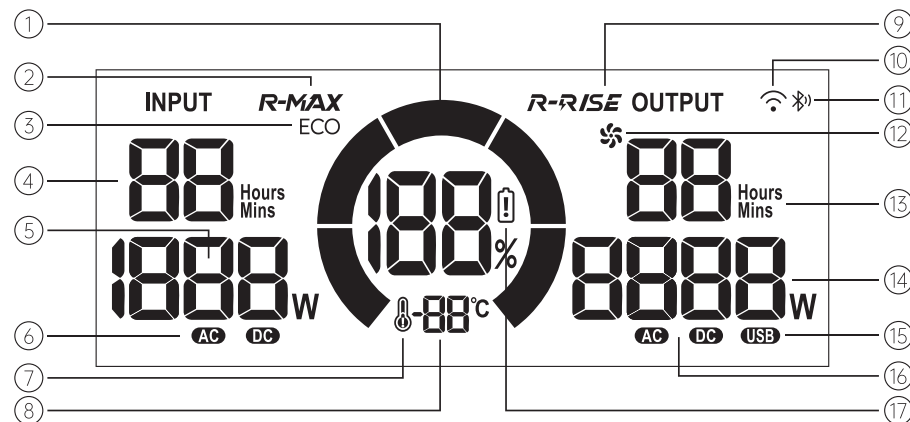


UK



AU

### Introduction to Screen Icons



- |                               |  |
|-------------------------------|--|
| 1. Battery level percentage   | 10. Bluetooth connection status (reserved) |
| 2. R-MAX Power mode           | 11. Wi-Fi connection status (reserved)     |
| 3. ECO energy-saving mode     | 12. Fan operation status                   |
| 4. Remaining charging time    | 13. Remaining usage time                   |
| 5. Current input power        | 14. Current output power                   |
| 6. AC/DC input status         | 15. USB output status                      |
| 7. High/low temperature alarm | 16. AC/DC output status                    |
| 8. Current temperature status | 17. Low voltage warning                    |
| 9. R-RISE parallel mode       |  |

## Product Usage

### 1. Turning on

When the product is turned off, press the main power switch once to turn the product on. Simultaneously, the LCD screen will light up. In sleep status, press the main power switch once to light up the LCD screen.

### 2. Turning off

Press and hold the main power switch to turn off the product. If a charging input source is present, the product will not turn off.

### 3. Using USB output

After confirming that main power supply is turned on, press the DC button once to activate the blue lamp. Then, you can use the USB output port (USB-A/Type-C/wireless charge output). Press the DC button once deactivate the product, causing the blue lamp light off.

### 4. Using 12V DC output

After confirming that main power supply is turned on, press the DC button to light up the blue lamp. This will enable the use of the 12V DC output port (Cigar lighter/DC5525). Press the DC button once again to turn off the product, and the blue lamp will light off.

### 5. Using AC output

After ensuring that main power supply is turned on, press the AC button to activate the blue lamp. Then, you can use the AC output port. Press the AC button once again to turn off the output.

### 6. Using lamp

Press the lighting button to fully light up the lamp. Press the button again, the light will be half bright, Press the button a third time to activate the lamp's the SOS mode. Press the button a fourth time to deactivate the mode. Press and hold the button to turn off the lamp or to disable the SOS mode.

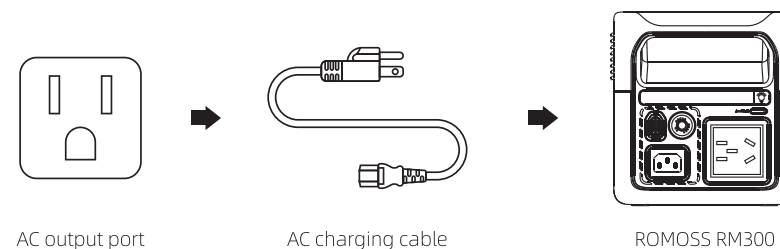


Note

The battery may be in Sleep mode after long-term transportation and storage. Please charge the product, and the battery will be activated after approximately 10 minutes.  
For optimal performance, fully charge the product before initial use to prevent inconvenience caused by insufficient battery levels.

## How to charge the product

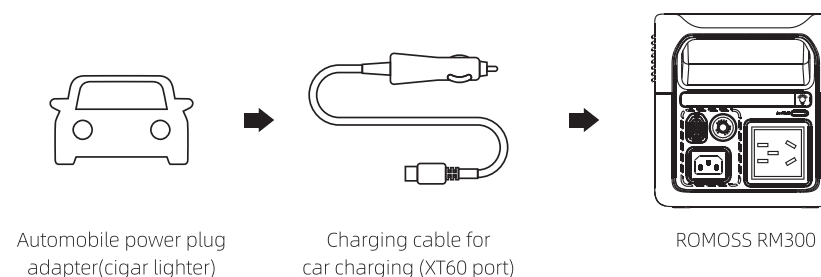
### Method 1. AC charging



### Method 2. Solar panel charging



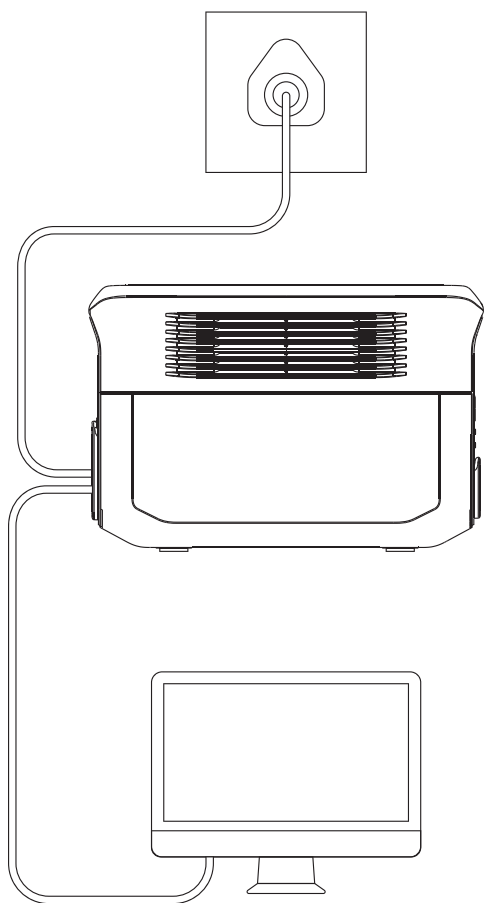
### Method 3. Car charger charging (12V)



## R-UPS Function

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The product supports UPS function. In case of a power outage, the product will switch to being supplied by an alternate power source within 10ms. However, please note that this function is not equivalent to a professional UPS system and does not support instantaneous (0ms) switching. Do not connect the product to devices with UPS requirements, such as: data server and work stations. Additionally, avoid using multiple devices simultaneously to prevent overload protection. ROMOSS bears no responsibility for operational failures or data loss resulting from failure to adhere to these instructions.



## FAQ

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### 1. What type of battery does the product use?

The product uses lithium iron phosphate battery.

### 2. What devices can the product's AC output port power?

The product's AC output port offers a rated power of 300W and a peak power of 600W, and the product also features the R-MAX function, which enables the powering of certain heating appliances with a power consumption of  $\leq 600W$ . Prior to usage, we recommend verifying the power requirements of your appliances and ensuring that the total power consumption of all connected devices remains below the rated power.

### 3. How long can the product charge a device?

The product's LCD screen displays the estimated power supply time, which can assist in gauging the charging duration for devices with stable power consumption.

### 4. Why does the fan start up sometimes?

When utilizing an outdoor power source for charging, the product may experience heating due to high power usage. The built-in fan aids in dissipating heat from the product. The fan will automatically activate with slight noise when the temperature reaches a certain level.

### 5. How to store the product?

Before storing the product, please ensure it is turned off. Store it in a dry and well-ventilated location at room temperature. Avoid placing it near water sources. For prolonged storage, it is advisable to discharge the battery to around 30% and recharge it to approximately 60% every three months. This practice helps extend the battery's overall lifespan.

### 6. Can I bring the product on a plane?

No. In accordance with airline regulations, passengers are prohibited from carrying lithium batteries with a capacity exceeding 100Wh on an aircraft.

### 7. Is the product's actual output capacity the same as that stated in the User Manual?

The capacity indicated in the User Manual represents the rated capacity of the product's power pack. However, due to efficiency losses during charging and discharging, the actual output capacity of the product is lower than the figure specified in the User Manual.



## Troubleshooting and Solution

Code	Meaning	Explanation
E02	AC output off	Please charge/supply the device within the rated power range. Then, press the AC button to restart the product. If a product with greater power is needed, please contact the customer service staff.
E04 E05 E06 E09	Output overload protection	When the E04/E05/E06/E09 warning is displayed, please charge/supply the device within the rated power range, and then press the corresponding button to restart.
E07	DC output overload protection	Please charge/supply the device within the rated power range of DC power supply, and then press On/Off button to restore the function.

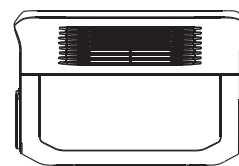


If a warning message is displayed while using the product, and the warning persists even after restarting the device, please discontinue its use immediately. Do not attempt to charge or discharge the device. If the problem continues after attempting the steps mentioned above, please get in touch with our customer service team for further assistance and consultation.

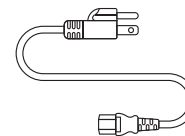
## Precautions

1. Before using the product, ensure you read all provided instructions.
2. When using the product for the first time, make sure to fully charge it.
3. When using the product in the vicinity of children, exercise caution and maintain close supervision to reduce risks.
4. Prior to usage, activate the digital product's screen and confirm the correct display of all charging connection icons to ensure proper functionality.
5. Utilize the charging cable provided in the product's package for charging.
6. When charging a digital product using the product, select an appropriate connection cable according to your needs.
7. While charging a digital product, if the product's LCD screen indicates insufficient battery level, promptly initiate charging. When connecting a digital product to the product, the digital product will prioritize using the product's battery level.
8. Upon completion of charging the digital product, promptly disconnect the connection cable to prevent any energy loss.
9. When the product is not in use, remove the power plug from the product's socket.
10. Avoid exposing the product to excessively hot, cold, or damp environments.
11. For safety, the product is designed for use at elevations below 2,000m.

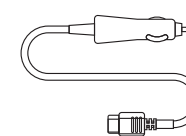
## Package List



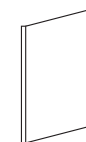
ROMOSS RM300



AC charging cable



Charging cable for car charging



User Manual

# After-sales Service

**Warranty description (The warranty scope only covers the product, excluding accessories and gifts.)**

1. After purchasing this product, the user can enjoy 2-year free repair service.
2. In the following cases the warranty is invalid, and fees will be charged for maintenance.
- ① Damage caused by human factors, including use under abnormal operating environment or not in accordance with the instruction manual, etc.
- ② The user disassembles, repairs or refits the panel without permission, or has it repaired by a non-Romoss maintenance department or an unauthorized organization.
- ③ Damage due to force majeure.
- ④ Absence of the product warranty card, valid purchase certificate (invoice), and verifiable user information.
- ⑤ The product barcode and label bearing the production date are torn (outer packaging).
- ⑥ The product barcode (on the product) has been torn up.
- ⑦ The warranty expires.

# Warranty Card

Service Type

Exchange ☐

Return ☐

Repair ☐

Customer Information

Name

Phone Number

Address

The Name and Address of the Seller

Product Information

Product Name and Model

Exchange and Repair Records