

USER MANUAL

130W Portable Power Bank

SHARGEK

Specifications

Name: SHARGEEEK 130W Portable Power Bank

Model: STM2E-1

Output Port: USB-C×1, USB-A×1

Material: Fireproof (V0) PC + Oxidized Aluminum Alloy

Battery Cell: 21700 Lithium-ion

Rated Capacity: 12000 mAh (5V/3A)

Typical Capacity: 20000 mAh/72 Wh

Dimension: 156×65×30.4 mm

Weight: 450 g

USB-C Input: 5V/9V/12V/15V=3A, 20V=3.25A (65 W Max)

USB-A Output: 5V=3A, 9V=3A, 12V=2.5A (30W Max)

USB-C Output: 5V/9V/12V/15V=3A, 20V=5A

PPS Output : 3.3~21V=5A

USB-C + USB-A Output: 100W + 30W (130W Max)

Important Safety Notes

01. Store the product in a cool and dry place.
02. Operating temperature should be between 32°F to 113°F (0°C to 45°C)
03. DO NOT disassemble the product. Take it to a qualified service person when service or repair is required. Incorrect reassembly may result in a risk of fire or injury to persons.
04. DO NOT use power supplies without authentic certification, or it may result in a risk of fire or injury to persons.
05. If the product is not to be used for a long period of time, you should charge (to 80%) and discharge (to 20%) the product every 3 months.

06. The product may get warm during charging process, it is a normal condition, and there's no need to worry about it.
07. In normal conditions, the battery life will decrease over several years.
08. DO NOT dispose the product in heat or fire.
09. DO NOT clean the product with harmful chemicals or detergents.
10. Misuse, dropping, or excessive force may cause product damage.
11. When disposing of secondary cells or batteries, keep cells or batteries of different electrochemical systems separate from each other.



This symbol indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

Notice

Declaration of Conformity

Hereby, SHARGEEEK declares that the product type STM2E-1 is in compliance with Directive 2014/30/EU.

FCC Statement

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 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.

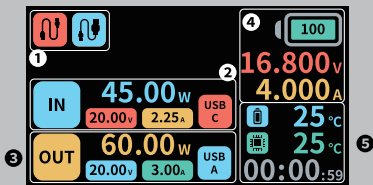
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- (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.

Energy Management OS v1.0



Terms Introduction

01. **EMOS:** Energy Management OS, is a patented operating system used for electric power management, developed by SHARGEERK' s RD team.
02. **Voltage Unit:** V | **Current Unit:** A | **Power Unit:** W
Temperature Unit: °C
03. **Short Press:** Press and release immediately
04. **Long Press:** Press and hold for more than 2 seconds, then release.




The top GUI includes 5 different information groups, each group information is described as below:

01. Port Status

This group displays connected port, can either be USB-C , USB-A .

02. Input Status

This group displays the input information when the product is being charged. The input information includes charging voltage (such as **20.00v**), charging current (such as **2.25A**), charging power and the charging port (this product can only be charged via USB-C). The charging port is also displayed as an icon such as .

03. Output Status

This group displays the output information when the product is charging other devices. The output information includes output voltage (such as **3.00A**), output current (such as **20.00v**) and the output power of specific port, the output port could either be USB-C, ROLL or TOTAL which is displayed as an icon shown as below:





Only when the product is charging multiple devices, can the display method be changed via short press the main button. Note that when the display mode is in ROLL status, it will display each port's output status in turn, and when it is in TOTAL status, it will display the total output power.

04. Battery Information

This group shows current status of the battery pack, including battery life, the voltage of the total battery pack and real-time current. Note that the battery life icon is designed with different colors based on different battery level, and it is expressed as a percentage (ex. 30 means 30%). The icon color definition is shown as below:









05. System Status

System status shows the temperature of the battery pack (following the icon ) , the temperature of the circuit board (following the icon ) , and the running time of the whole system.

Second-Level GUI Introduction

Long press the main button (when the system is in the Top-Level GUI) will enter the second-level GUI, providing items below:

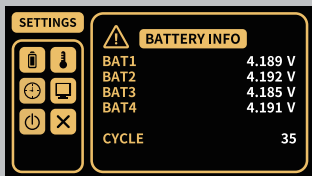
- (1)  Detail information about the battery pack
- (2)  Configure the unit of temperature
- (3)  Reset the system running time
- (4)  Configure the display settings
- (5)  System power off
- (6)  Exit (Return back to Top-Level GUI)

You can enter above items when corresponding icon is flashing via Long Pressing the main button. If not particularly indicated, “Short Press” is used to select items while “Long Press” is used to change parameters.

01. Battery Information

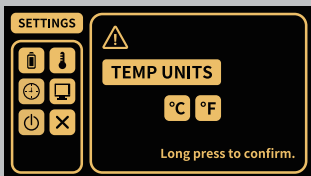
This item displays detailed information about the battery pack. It shows the voltage of each battery cell sampled by the internal hardware coulometer. The coulometer keeps monitoring each battery cell (including voltage, temperature etc.) to ensure safety.

Note that if you find the voltage of a battery cell is abnormally high or low (normal range is 2.6V~4.2V), and the power bank stops charging or being charged, please contact us.



02. Temperature Unit Configuration

You can configure the unit of the temperature either in celsius (°C) or fahrenheit (°F).



03. System Running Time Reset

You can reset the system running time to get the relative charging time for specific devices.



04. Display Configuration

You can modify the display sleep time to **1MIN** or **5MIN**, disable sleep function or change the display direction to **A** or **V**.



05. System Power Off

Turn off the system to save power, especially when you are not intend to use it for a long period of time.



06. Return to Top-Level GUI

Once you finish the configuration or information checking, you can return to Top-Level GUI via Long Pressing **EXIT** .



Warning Information

EMOS owns a complete, strict policy to ensure the use safety. Users must fully understand each type of warning message. Warning messages includes:

- ▷ DC Output Warning
- ▷ Circuit Over-Temperature Warning
- ▷ Low Energy Warning
- ▷ Battery Over-Temperature Warning
- ▷ Battery Low-Temperature Warning

We designed a message box for each warning containing corresponding information.

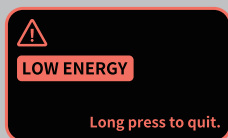
01. Circuit Over-Temperature Warning

The circuit board will generate heat during power conversion, when the temperature exceeds 80°C, the over-temperature protection will be triggered, and it will pop the message below.



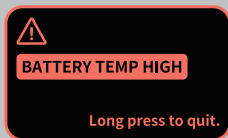
02. Low Energy Warning

When the voltage of the battery pack is lower than pre-defined threshold (for Lithium-ion cells combined in series of 4, the threshold voltage is 11.6V), the system will pop out the message below.



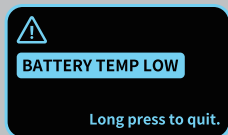
03. Battery Over-Temperature Warning

Battery is very sensitive to environment temperature, extreme temperature will affect the performance of battery cells, decrease the battery life and may even cause permanent damage. When the battery temperature is above 65°C, battery over-temperature protection will be triggered and the system will turn off outputs. In this situation, please turn off the system if applicable and let the product cool down.



04. Battery Low-Temperature Warning

When you use the product with EMOS in cold areas, the battery may get too cold (below -15°C) to provide sufficient power, EMOS will also turn off the system output to avoid unstable output power. Please put the product in a warm environment to recover.



NOTE :

SHARGEERK reserve the rights to change this manual based on actual products without notifications, please contact us via email (info@shargeek.com) if you have any questions.

Customer Service



18-month Limited Warranty *



Lifetime technical Support



info@shargeek.com

NOTE * :

Please note that your rights under applicable law governing the sale of consumer goods remain unaffected by the warranties given in this Limited Warranty. The warranty can either be Refund, Replacement or Repair based on different situations.

The warranty does not cover defects or damages caused by accident, improper care, improper use, negligence or excessive wear and tear.

SHARGEEEK warrants that this product is free from defects in material and workmanship for a period of 18 months from the date of purchase.



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