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ES980S

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Solar Charger Power Bank Use Manual

Product introduction

· This product is a portable solar charger power bank. It supports QC2.0/QC3.0 Output Fast Charging Protocol, FCP/AF-C/SFCP Input and Output Fast Charging Protocol, MTK PE+1.1&2.0 Output Fast Charging Protocol, USB C/PD2.0/PD3.0 Input and Output Protocol, USB C PD3.0 PPS Output Protocol, compatible with BC1.2/Apple/Samsung Mobile Phone. The charging input terminal of the product is micro USB, TYPE-C interface and solar energy input, using constant current and constant voltage charging mode to charge the built-in battery; Out1 is a normal output 5V/3A, Out2: supports QC2.0/QC3.0 DC5V/3.0A 9V/2A 12V/1.5A, TYPE-C input DC5V/3A 9V/2A, output DC5V/3.0A 9V/2A 12V/1.5A, supports PD2.0/PD3.0 PPS FCP AFC SFCK MTK bidirectional fast charging protocol. Out1 is a 5V general output interface, Out2 and TYPE-C are fast charging interfaces, and only 5V output is supported when two or more output interfaces are used at the same time. Solar charging input DC5V/300mA. It can supply power and charge for various brands of mobile phones, IPAD, PSP, MP3/MP4, PDA and other digital products.

· Using the latest intelligent fast charge and discharge management chip, the efficiency is up to 90%, multiple intelligent protection functions, safe/reliable use, ultra-low self-consumption.

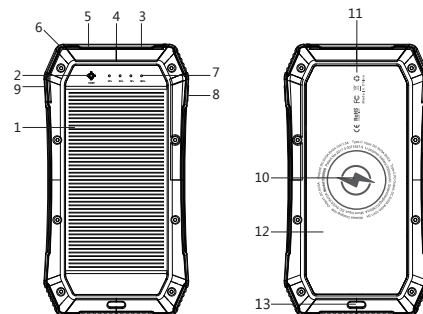
· Built-in large capacity lithium-ion battery, ultra-long endurance.

Specifications

Micro Input:DC 5V/2A 9V/2A
TYPE-C Input: 5V/3A 9V/2A
Solar charging:5V/300mA
Output1: 5V/3A
Output2: 5V/3A 9V/2A 12V/1.5A
TYPE-C Output: 5V/3A 9V/2A 12V/1.5A
Wireless Output: DC 5V/1A 7.5V/1A 9V/1.1A

Functions display

- 1, Solar panel
- 2, Solar charging indicator
- 3, USB Output port 1
- 4, Micro input port
- 5, USB Output port 2
- 6, USB silica gel plug for protection
- 7, Power indicator
- 8, Power switch/shift
- 9, TYPE-C input port
- 10, Wireless Charger
- 11, Wireless Charger indicator
- 12, LED lighting
- 13, Lanyard



Power ON/OFF button operation instructions

When the power is off, Click to turn on the wireless charging function and wake up the output function of each port, and display the battery power. At the same time, when the red light flashes three times, the long light indicates that the wireless charging has started. At this time, it is detected that the correct wireless charging and receiving terminal or load will turn on the green light and breathe; when the wireless charging and indicating lamp is full, it will turn off. Double-click to turn on or off the LED lights. In the state of the LED lights on, click the button to switch to red and blue flashing alternately. Click again to turn off the lights.

Adapter charging

When the external DC power supply is connected to the product through micro USB or TYPE-C, the product will charge the built-in battery. Four blue LEDs will automatically light up the current power of the product, as follows:

Power	LED1	LED2	LED3	LED4
100%	on	on	on	on
75%~99%	on	on	on	flash
50%~75%	on	on	flash	off
25%~50%	on	flash	off	off
0%~25%	flash	off	off	off

Solar panel charging

When the product solar panel receives sunlight, the best way to receive sunlight illumination is in 45 degrees. The built-in charging circuit automatically charges the built-in battery. The solar indicator light is always green, which indicates that the solar panel is charging the battery. To view the power consumption, press the power ON/OFF

button (Note: Actual display power can refer to "Power View") to view the power consumption.

Power volume review

Normally, just short press the Power ON/OFF button at the side of the product, and the product starts to supply power to the USB output. The LED power indicator shows the power volume as shown in below table. After 30 seconds of not connecting to the load, the product shuts down and enters standby state.

Power	LED1	LED2	LED3	LED4
75%~100%	on	on	on	on
50%~75%	on	on	on	off
25%~50%	on	on	off	off
10%~25%	on	off	off	off
0%~10%	flash	off	off	off

Charging Digital Equipment

1. Short press the Power ON/OFF button to start the product to supply power to the USB output. At this time, the product and the digital device can be charged by connecting the charging cable of the digital device to the product and the digital device. (Product work instructions refer to Power volume review)
2. When the product is standby, connect the digital device with the charging cable of the digital device and then connect the product. The product can automatically start charging the digital product without pressing the button.
3. When the output USB ports are not connected to the charged device for 30 seconds or when the charged device is full, the product will turn off all output and power display and enter a low power standby state.

Wireless Charging

Press the button to enter the wireless charging state. When using the wireless charging function alone, the maximum output can be 10W to charge your product. When USB1, USB2, TYPE-C are used at the same time or the current is in the range of 2A, the wireless charging will automatically switch to 5W. If the wireless charge is more than 2.5A, it will automatically turn off.

LED Lights instruction

Double-click the Power ON/OFF button to turn on the LED lights when the illumination lamp is off. The white lamp will be on for a long time. Click again, the blue and the red lights will flicker alternately. The white lamp will turn off as well. Clicking/double-clicking again, the lights will turn off.

Protection function

Input undervoltage undercurrent protection

If the adapter with actual specifications less than 5V/2.1A is used to charge the product (such as 5V/1A adapter), the product will automatically adapt to the output current of the adapter (automatically reduce the charging current of the built-in battery) to prevent damage to the adapter. The product does not support discharge output when charging, but it can discharge when solar charging input.

Input Short Circuit Protection

If the product input short circuit is caused by improper use or other factors (such as product charging cable breakage short circuit), the product will automatically shut off the charging circuit to prevent product damage and battery power backfilling.

Output Overcurrent Protection

If the output current of any USB is more than 3.2A due to improper use or other factors, the product will automatically turn off the output to protect the charged device and the product itself. When the short circuit is removed, if the flashing of the button power display is extinguished after four times, it needs to be charged and activated again to start the discharge.

Output Short Circuit Protection

If any USB output is short-circuited due to improper use or other factors, the product will automatically turn off the output to protect the charged device and the product itself. When the short circuit is removed, if the flashing of the button power display is extinguished after four times, it needs to be charged and activated again to start the discharge.

Warnings:

DO NOT put this product under the over heating environment(such as inside the airtight car which is under great sunlight heating, Radiators, Stoves and any other equipment or devices which produce high temperature). The over heating would probably damage the product or even cause any potential threaten to the safety of human life.

The product is consisted of sophisticated electronic components, non-professionals can not disassemble the product, to avoid accidentally hurting yourself or damaging the product.

There are lithium-ion batteries inside the product. Please pay attention to the use under the local laws and regulations, can not be discarded, pay attention to recycling. DO NOT put the disposal battery under the over heating environment like strong sunlight , fire ,or any other similar conditions.

FCC Statement

This device complies with part 15 and part 18 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. Changes or modifications not explicitly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note: this equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 and part 18 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and candidate 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.

The equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. During the operation of device a distance of 15 cm surrounding the device and 20 cm above the top surface of the device must be respected.

This device complies with Part 18 of the FCC Rules. 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. 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:

- Increase the separation between the equipment and any other radio device.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.