

DongGuan RongSheng Electronic
Technology Co. , Ltd.

PRODUCTS SPECIFICATION

MODEL: RSM001、RSM002、RSM003、RSM004

NAME: Power Bank

VERSION: A0

WRITER:

CHECKER:

APPROVER:

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Modification record

Version	Change content	compile	Change date
A0	Initial issue	Chen Li	2024-12-30

I . Product scope and overview:

1. Product application scope

This specification applies to RSM001 products produced by our company.

This product supports most of the various brands of mobile phone charging in the market; At the same time, it is suitable for the general charging of most electronic products such as IPAD, digital cameras, game consoles, and heating clothes.

2. Product overview

This mobile power supply is a high-grade standby power supply specially designed for mobile digital products. The input part uses a lithium battery charging management IC; The output adopts high efficiency DC-DC boost converter circuit. Special lithium cell protection control circuit to achieve accurate voltage overcharge, voltage overdischarge, current overload and short circuit protection

Product features:

- 1) . Using IC control technology and multiple protection circuit;
- 2) . High efficiency wireless charging function;
- 3). The standard single TC input/output interface can be adapted to different load requirements
- 4) . Power 4 high-brightness white LED indicator, 1 high-brightness blue LED wireless charging indicator
- 5) . This product has compact structure, unique appearance, elegant appearance, fine production technology, special processing technology, bright color and high-end products.

3, Product effect drawing and shape drawing



Product size: Length * width * thickness approx (104.1*66.5*8.8mm±1.0mm)

Product weight: approx 120g

II. Interface introduction

1, Input charging interface

TYPE-C Input: 5V/3A 9V/2A 12V/1.5A

2, Output discharge interface

TYPE-C Output: 5V/3A 9V/2.22 12V/1.67A

Wireless charging output: 5W/7.5W/10W/15W

III. Electrical characteristic

3.1 Main Performance Specifications

No.	Test item	Test standard
1	Charging voltage	QC/PD/DC 5V/9V/12V
2	Input	Type-C Input charging QC/PD 5V/3A±0.2A QC/PD 9V/2A±0.2A QC/PD 12V/1.5A±0.2A
3	Output	TYPE-C Output discharge 15W: QC/PD 5V/3A 20W: QC/PD 9V/2.22A 20W: QC/PD 12V/1.67A
4	Output	Wireless charging output 5W/7.5W/10W/15W
5	Key function	1, TYPE-C automatic output, key to wake up or shut down, display power and open the output, no load (output current is less than 100mA) 30S±10S automatically enter sleep 2, wireless charging Q value start 3, key wake up/shut down
6	TYPE-C Output overcurrent protection	TYPE-C Output overcurrent protection QC/PD 5V/3.4A+/-0.2A QC/PD 9V/2.52A+/-0.2A QC/PD 12V/1.97A+/-0.2A
7	Short circuit protection	When the output is short circuit (3S), the power indicator is off, the output is off, and the fault is removed by pressing the boot to automatically activate.
8	Standby current	$V_{bat}=3.7V \leq 200\mu A$

3.2 Indicator parameter

Power indicator light	4 white power indicators
Wireless charging indicator	
Wireless charge starting	Blue light on 1S
Charging in progress	Blue light on
Fully charged	Blue light off (After about 40 seconds, the mobile power supply will enter automatic sleep)
FOD	Blue light flashing

3.3 NTC Temperature protection

Cell protection temperature	Input: 55°C High temperature protection 45°C Input Output: 65°C High temperature protection 55°C Output
Wireless charging reduces power consumption	60°C Reduce power consumption 45°C Recovery power consumption

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.

Any 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:

- 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.

FCC Radiation Exposure statement

The device has been evaluatec to mee general RF exposure requirement. The device can be used in portable exposure condition without restriction.