

# 数控电源钣金外壳（S400）组装说明

## Digital power supply case (S400) assembly instruction

外壳适用数控电源型号：RD6006/RD6006-W/RD6006P/RD6006P-W

This case is suitable for RD6006/RD6006-W/RD6006P/RD6006P-W

修订日期：2021-10-12

Date: 2021-10-12



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修订日期：2021-10-12

尊敬的用户，感谢您购买由睿登科技有限公司出品的数控电源配套外壳，为了让您更快了解本产品的全部功能，获得更好的使用体验，避免出现误操作，使用前请仔细阅读本说明并保留好，以便日后查阅。

**注意：由于组装过程涉及超过人体安全的电压，非专业人士请勿操作，组装过程中做好绝缘和防护措施，重复检查接线，并将本品置于儿童和老人难以触碰到的地方。**

请优先使用推荐开关电源，如用其他电源请注意固定孔位置以及连接线是否合适。



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## 1. 注意事项

- 组装前请仔细阅读本文档，如有疑问请与本公司联系。  
由于组装过程涉及超过人体安全的电压，非专业人士请勿操作，  
组装过程中做好绝缘和防护措施，并将本品置于儿童和老人难以  
触碰到的地方。
- 本外壳采用冷轧钢板材料，表面喷塑，组装、使用时应防止尖  
锐物体划伤，避免阳光直晒和潮湿环境。
- 组装时防止短路，正确连接正负极。
- 不可在电源接通的情况下连接电路。
- 尽量避免震动和跌落。

## 2. 产品尺寸



## 3. 配件列表

名称	规格	数量	图片
顶壳	S400 上盖板	1	
底壳	S400 下盖板	1	

连接电线	棕色 9 CM: 2 根 黄绿 9CM: 1 根 蓝色 10 CM: 1 根 红色 40 CM:1 根 黑色 40 CM:1 根 带小板温度连接线	7	
船型开关	KCD3	1	
品字插座	AC-04	1	
风扇供电板	33mm*33mm (长*宽)	1	
风扇	6015	1	
防滑脚垫	Φ 13*4	4	
风扇供电板固定螺丝	M3*5*7 大圆头	3	
防滑脚垫固定螺丝	M3*5*7 大圆头	4	
风扇固定螺丝	圆头 M3*16	4	
风扇固定螺母	M3 螺母	4	
开关电源固定螺丝	M4*6 大扁头	4	
外壳固定螺丝	M3*6 平头白色	10	

## 4. 产品配件图



## 5. 组装步骤

### 5.1 组装准备：

- 数控电源 RD6006P 一台，钣金外壳 S400 一套，65V400W 开关电源一台，直流稳压电源一台。
- 工具，附件（直流稳压电源，品字电源线，万用表，螺丝刀，测电笔等）。
- 适当的组装环境。

推荐开关电源：

<https://item.taobao.com/item.htm?spm=2013.1.0.0.794a7e17BQp90i&id=610307682808>

## 5.2 组装步骤：

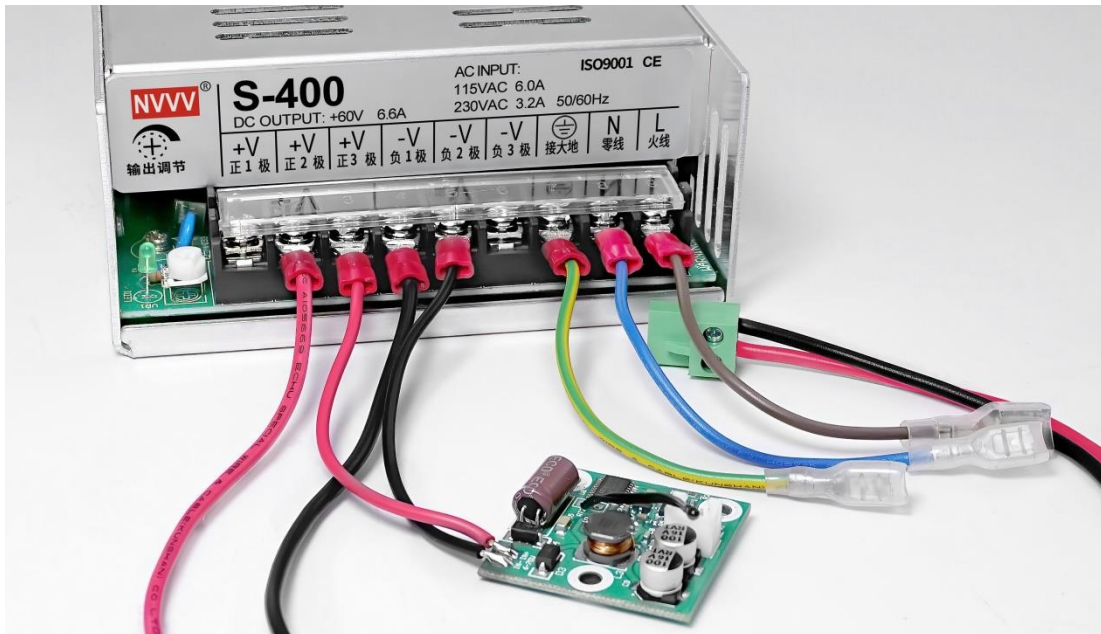
**S400 外壳组装说明视频：** <http://qr17.cn/FLNIYh>

注：外壳质地较软，运输中可能会产生轻微的变形，如果组装的时候产生缝隙，请轻轻掰直后再组装。

1. 配件检查：对照配件列表或配件图检查 S400 的配件是否完整。
2. RD6006P 检查：将电源线和 RD6006P 座子连接好，直流稳压电源调整到 12V1A 给 RD6006P 通电，RD6006P 设置 5V1A 打开输出看显示是否正常。
3. 后面板组装：将开关，品字插座，风扇组装到下盖板上。



4. 开关电源接线：将棕线蓝线黄绿线分别安装到开关电源的火线（L）零线（N）和地线（ $\text{≡}$ ）。将风扇板的黑线和输出黑线安装到开关电源负极（-V），将风扇板红线和输出红线安装带开关电源正极（+V）。将 RD6006P 的绿色端子安装到输出线上。如图所示。



5. 安装电源

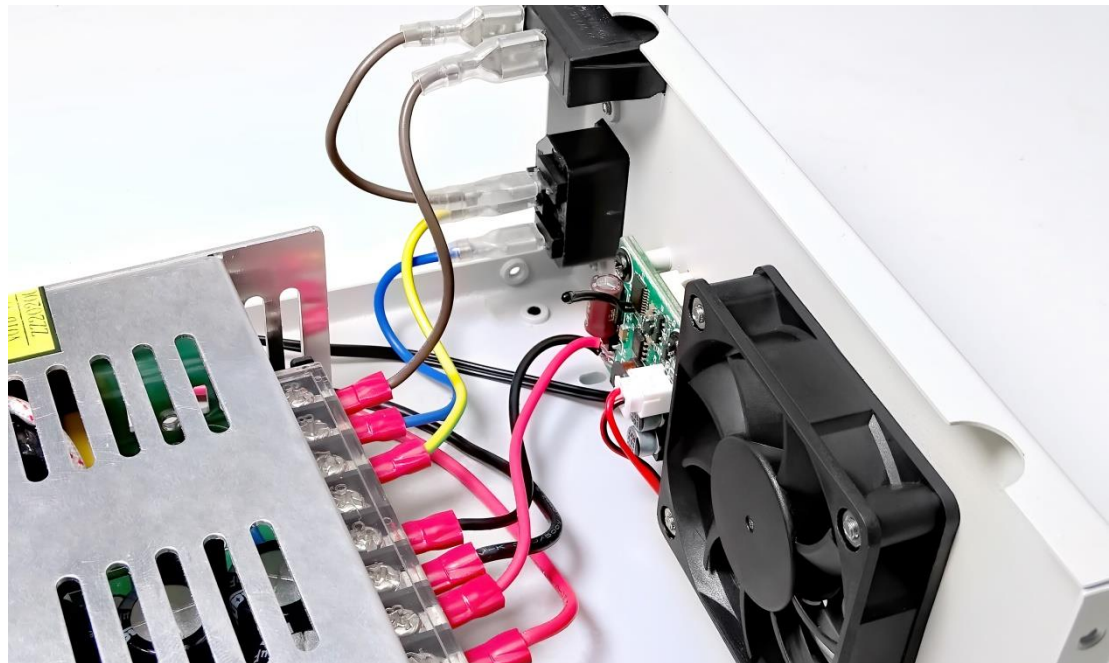


## 将电源安装到外壳上



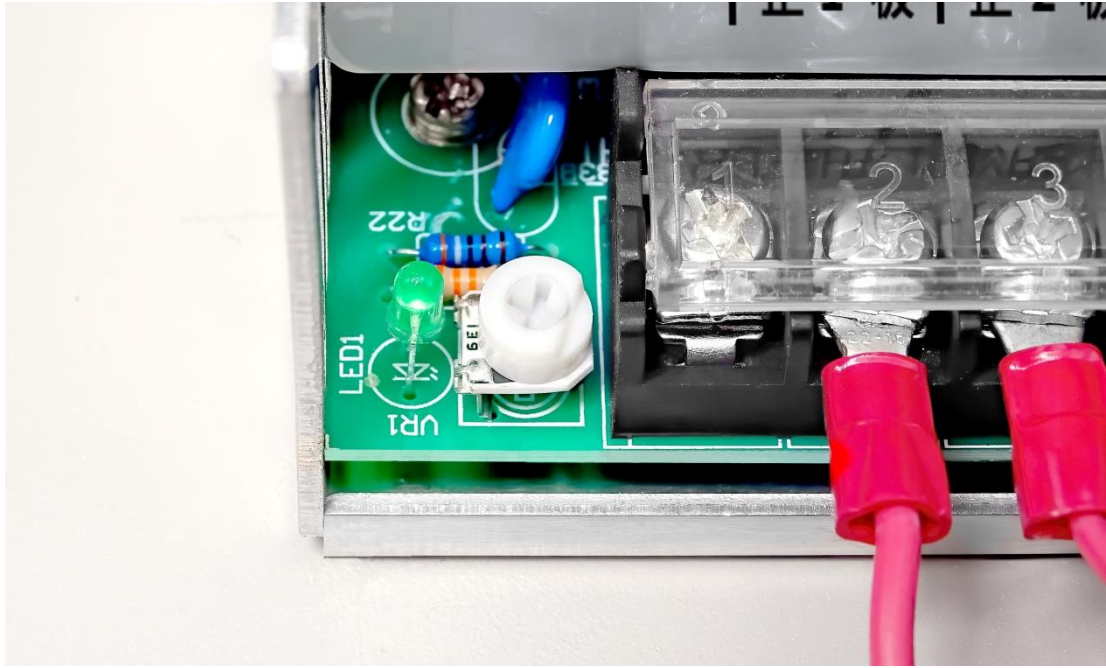
### 6. 安装小板，接通电源线（危险动作，非专业人士请勿操作）

将温度线延长板和风扇板一同安装到外壳上，用棕线连通开关和开关电源的火线(L)；然后用棕线连通开关和品字插座的火线(L)；用蓝线连通品字插座零线(N)和开关电源零线(N)；用黄绿双色线连通品字插座地线(E)和开关电源地线(⚡)。然后将风扇插上，如图所示。

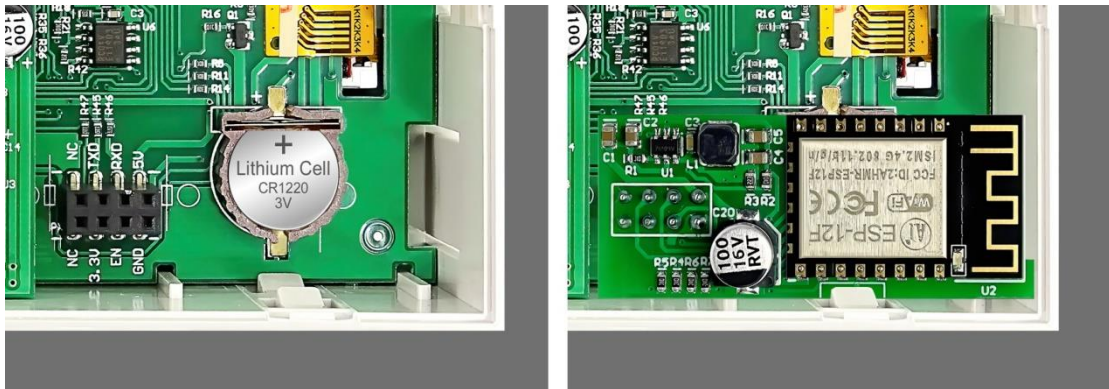


7.开关电源测试：再次检查接线后，用电源线供电，用测电笔检查供电和绝缘状况，再用万用表测量 65V 电源输出是否正常，然后用小螺丝刀将电源的输出值微调至 68V 左右。

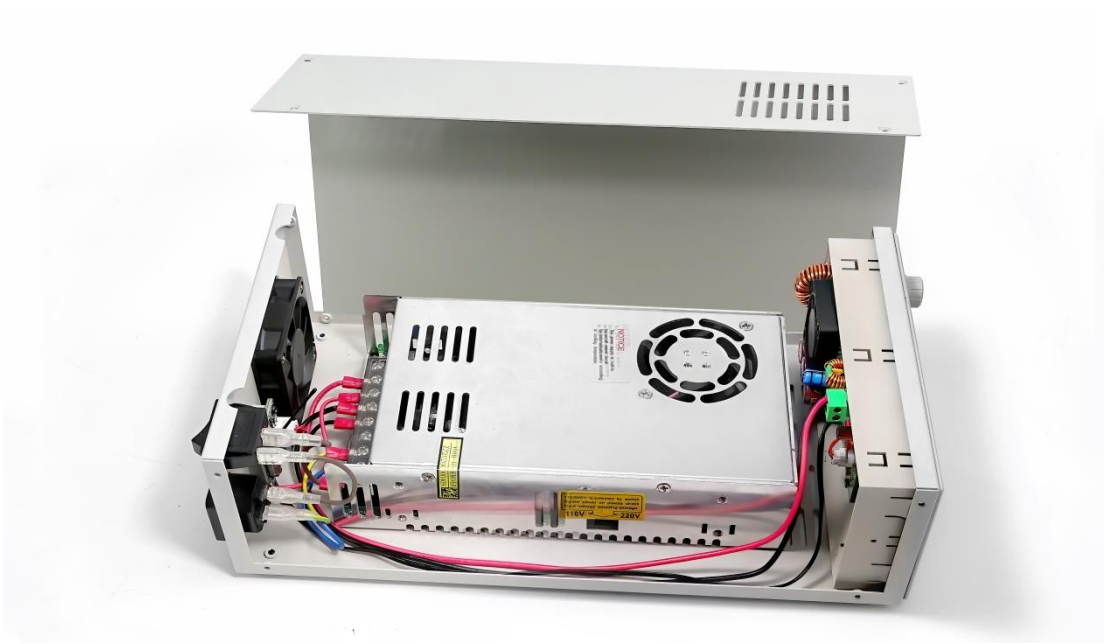




8. RD6006P 组装：将电池和 WIFI 版安装对位，然后把 RD6006P 卡到壳子上。



9. 剩余接线组装：将绿色端子，温度传感器延长线连接到 RD6006P 主板对应端子上。



10. 通电测试：插好电源线，打开开关，外壳风扇运转起来（注：温控风扇，40℃以下，上电运转 3S 后停转，40℃-50℃低速运转，50℃-60℃中速运转 60℃以上全速运转）。

11. 装好外壳螺丝。



12. 装好脚垫。



13.如果需要使用外部温度测量功能，可以将温度线在后面插好，最后通电测试使用。



# Digital Power Supply Case (S400)

## Assembly Instruction

Date: 2021-3-27

Dear users, thank you for purchasing the digital power supply accessory-metal case produced by Hangzhou Ruideng Technology Co., Ltd. In order to let you know more about the full function of this product, get a better experience and avoid misuse. Please read this instruction carefully before assembly. Keep it for future reference.

**ATTENTION:** Since the assembly process involves voltage that exceeds the human body's safety, non-professionals should not operate, you must do insulation and protective measures during the assembly process, and check the wiring several times for safety, please place the product at a place that children and old people cannot get.

Please use the switch power supply we recommend, and if you use other power source, check if the positions of fixing holes are suitable or not.



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## 1. Notes

- Read this instruction carefully before assembly, if you still have question, please contact us.

Since the assembly process involves voltage that exceeds the human body's safety, non-professionals should not operate, you must do insulation and protective measures during the assembly process, don't forget to check the wiring several times for safety, and place the product at a place which children and old people cannot get.


- This case is made of cold-rolled steel plate and the surface is sprayed. When assembling and using, prevent it from scratching by sharp objects, and avoid direct sunlight and humid environment.

- Avoid short circuit when assembling, connect the electrode correctly.
- NEVER connect the cables with the power ON.
- Try to avoid vibration and fall.


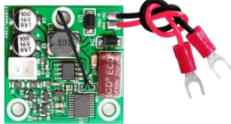









## 2. Product Dimension



## 3. Accessory List

NAME	SPECIFICATION	QUANTITY	PICTURE
Upper Board	S400 upper board	1	
Lower Board	S400 lower board	1	



Fan	50mm*15mm	1	
Fan power board	33mm*33mm	1	
Screws for fan power board	M3*5*7	3	
Foot pad fixing screws	M3*5*7	4	
Screws for fan fixing	Round screw M3*16	4	
Nuts for fan fixing	M3 nut	4	
Cables	Brown(9cm): 2 yellow-green(9cm): 1 blue(10cm): 1 red(40cm): 1 black(40cm): 1 Temperature sensor connection cable with board:1	7	
Rocker switch	KCD3	1	
AC power socket	AC-04	1	
Non-slip mat	Φ13*4	4	
switch power supply fixing screws	M4*6 flat head	4	
Case fixing screws	M3*6 flat head white	10	

## 4. Accessory Picture



A: Lower Board	B: Upper Board
C: Case and AC power socket fixing screws	D: Screws for fan power board and Mats
E: Non-slip mat	F: Switch power supply fixing screws
G: Nuts for fan fixing	H: Screws for fan fixing
I: Fan power board	J: Rocker switch
K: AC power socket	L: Fan
M: Cables	

## 5. Assembly Procedure

### 5.1 Assembly Preparation

- RD6006/RD6006W/RD6006P digital power supply\*1, S400 case\*1, 400W65V switch power supply\*1, DC regulated power supply\*1
- Tools, accessory (3 pin plug cable, multimeter, screw driver, test pencil...)
- Proper assembly environment

It is recommend to use a 400W 65V switch power supply.

### 5.2 Assembly step

**Note:** The case material is a bit soft and may be slightly deformed during transportation. If there is a gap during the assembly, please straighten it before assemble it.

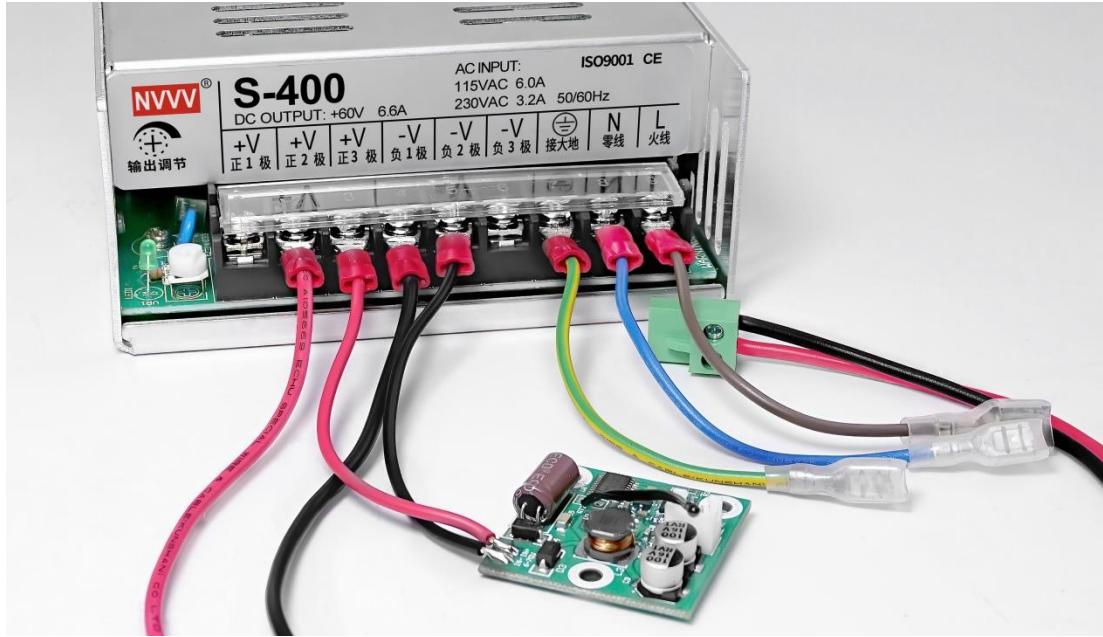
① Check the accessories: check if the accessories of S06A are same as accessory list or accessory picture.

② Check RD6006: connect the power cables to the input terminal of RD6006, and then adjust input power supply to 12v/1A to power on RD6006, and set 5V/1A output on RD6006, turn on the output to see if the output is normal.

③ Back board assembly: install the rocker switch, AC power socket and fan on the lower board.



④ Connect the cables to Switch power supply: connect the brown cable to the (L) terminal, connect blue cable to the (N) terminal, connect yellow-green cable to the ( $\equiv$ ) terminal, connect the black cable of the fan board and the output black cable to the (-V) terminals, connect the red cable of the fan board and the output red cable to the (+V) terminals. As shown below. Connect the output cables to the green terminal of RD6006.



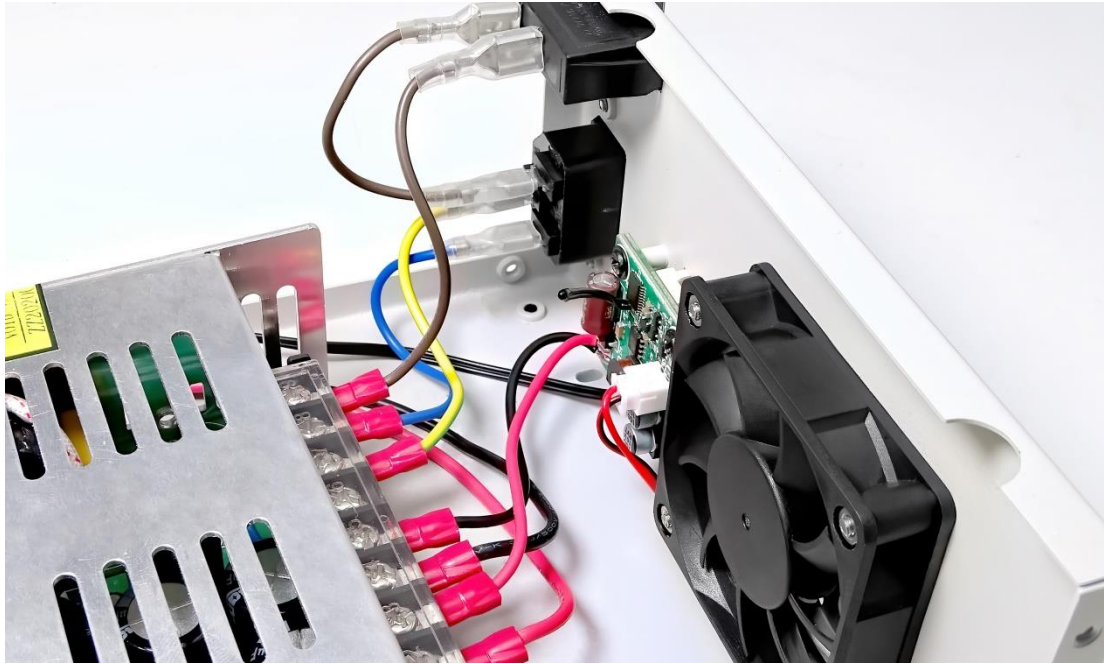
⑤ Install the switch power supply

Install the switch power supply on the lower board



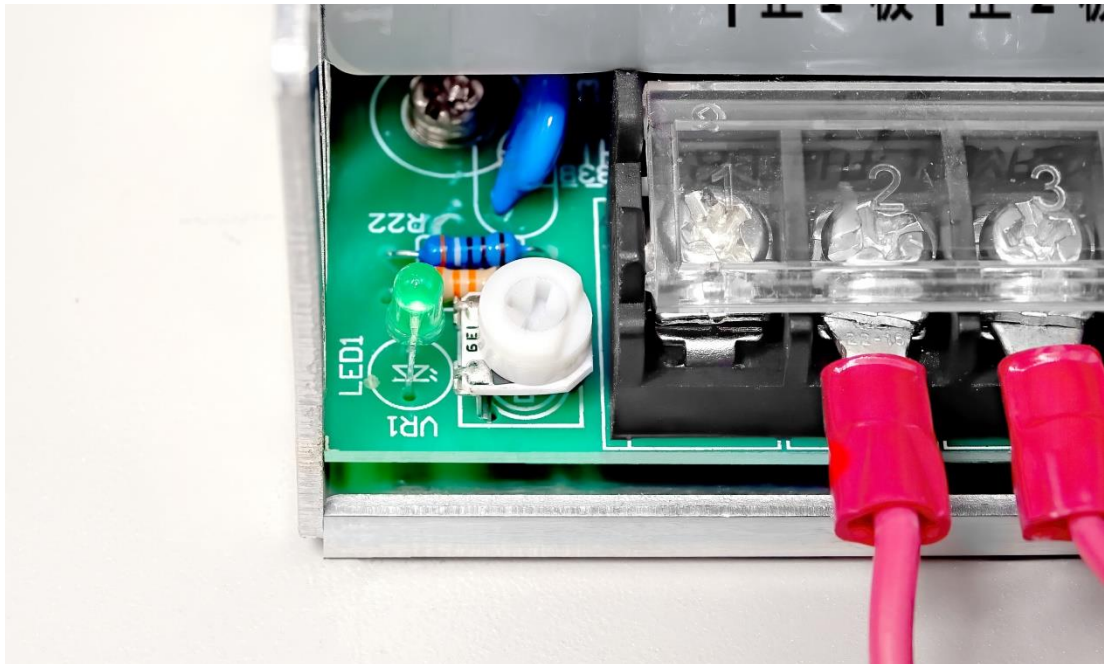
⑥ Install the board and connect the power cable (dangerous, non-professionals should not operate)

Install the board of temperature sensor extension cable and fan board on the back panel, use brown cable to connect the rocker switch and the live wire (L) of the switch power supply; then use the brown cable to connect the rocker switch and the live wire (L) of the AC power socket; Use the blue cable to connect the neutral wire (N) of AC power socket and the neutral wire (N) of switch power supply; Use a yellow-green two-color cable to connect the ground wire (E) of AC power socket and the ground wire ( $\equiv$ ) of switch power supply. Insert the cable of the fan to the fan board as shown below.



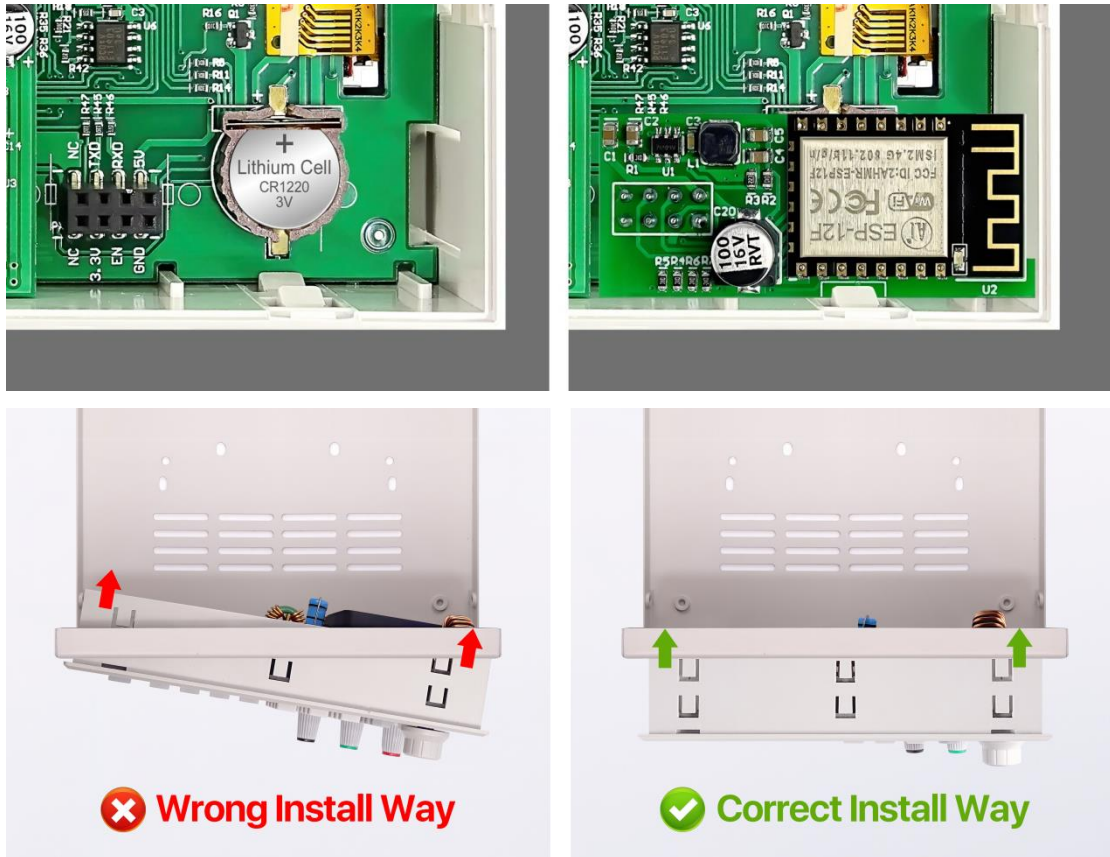
⑦ Switch power supply test:

Check the wiring again and power on the switch power supply, and use test pencil to check the power and insulation status. Then use multimeter to check if the 65V output is normal, then use screw driver to adjust the output of the switch power supply to 68V.

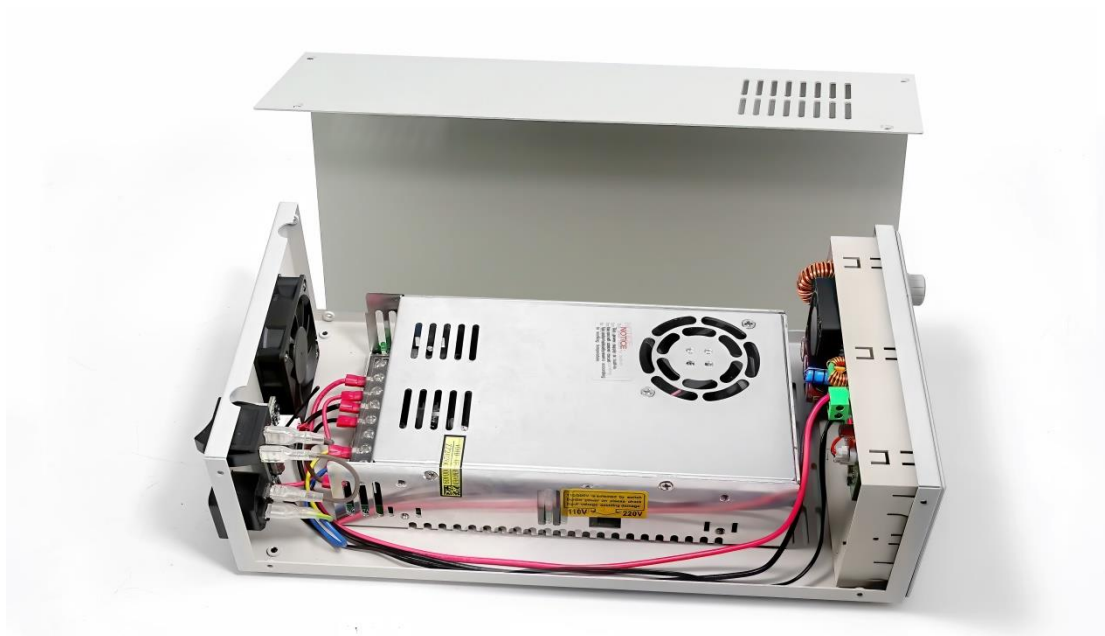


⑧ Install RD6006, install the CR1220 battery (prepare yourself) and wifi board (if you order the wifi version), then insert the RD6006 in the right way





⑨ Connect the rest cables: connect the green terminal to the input of RD6006 and insert the temperature sensor extension cable to the socket on the back of RD6006.



⑩ Power on and test

Connect power cable and turn on the switch, the fan start to work.

(Note: Temperature-controlled fan, when the RD6006 is powered on below 40°C, it will work for 3 seconds and then stop, and it will run at low speed below 40°C-50°C, run at medium speed below 50°C-60°C, run at full speed when the temperature exceeds 60°C)



⑪ Install the screws of the case



⑫ Install the foot pads.



⑬ If you want to use the temperature sensor, you just need to insert the cable on the back panel as shown below:

