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Digital Power Supply Case (S400)

Assembly Instruction

Date: 2021.10.12

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.

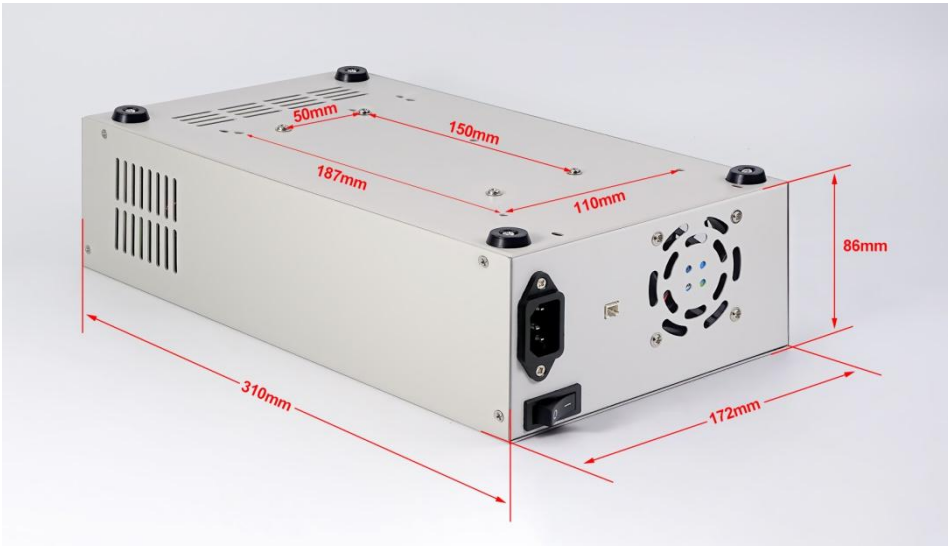
● This case is made of cold-rolled steel plate and the surface is sprayed. When assembling and using, prevent it from scratching by sharp objects, and avoid direct sunlight and humid environment.

● Avoid short circuit when assembling, connect the electrode correctly.

● NEVER connect the cables with the power ON.

● Try to avoid vibration and fall.

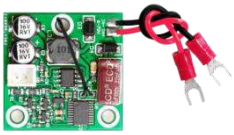
2. Product Dimension



3. Accessory List

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

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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	

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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	

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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.

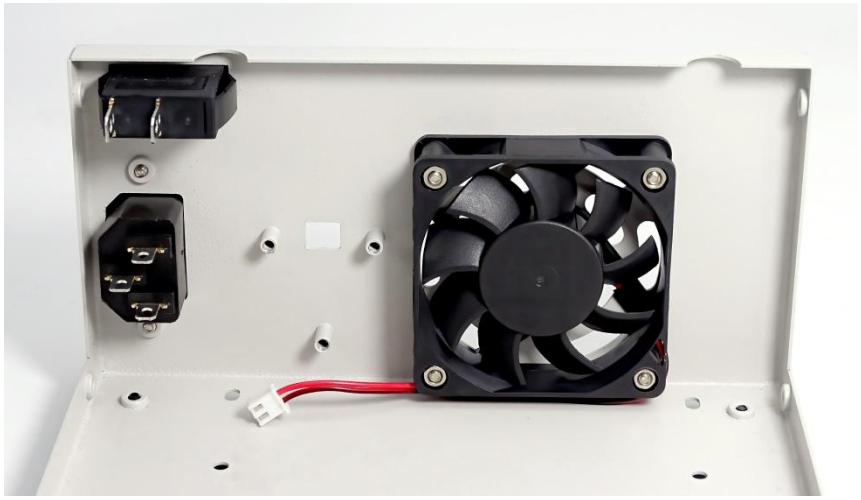
5.2 Assembly step

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.

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

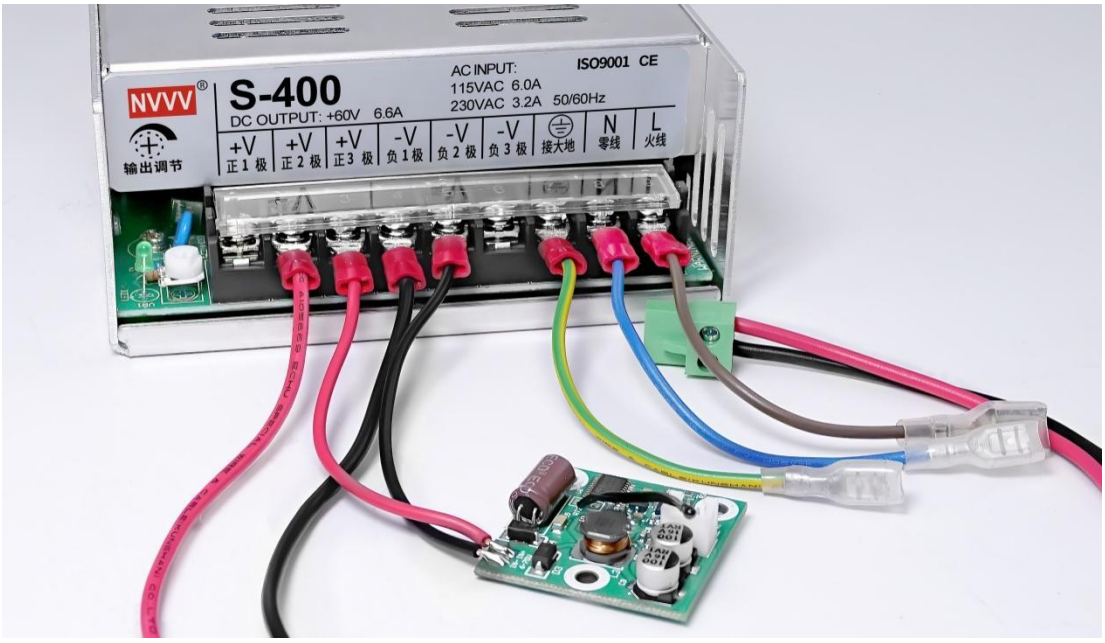
②Check RD6006: connect the power cables to the input terminal of RD6006, and then adjust input power supply to 12v/1A to power on RD6006, and set 5V/1A output on RD6006, turn on the output to see if the output is normal.

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



④Connect 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 (⏚) 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.

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⑤ Install the switch power supply

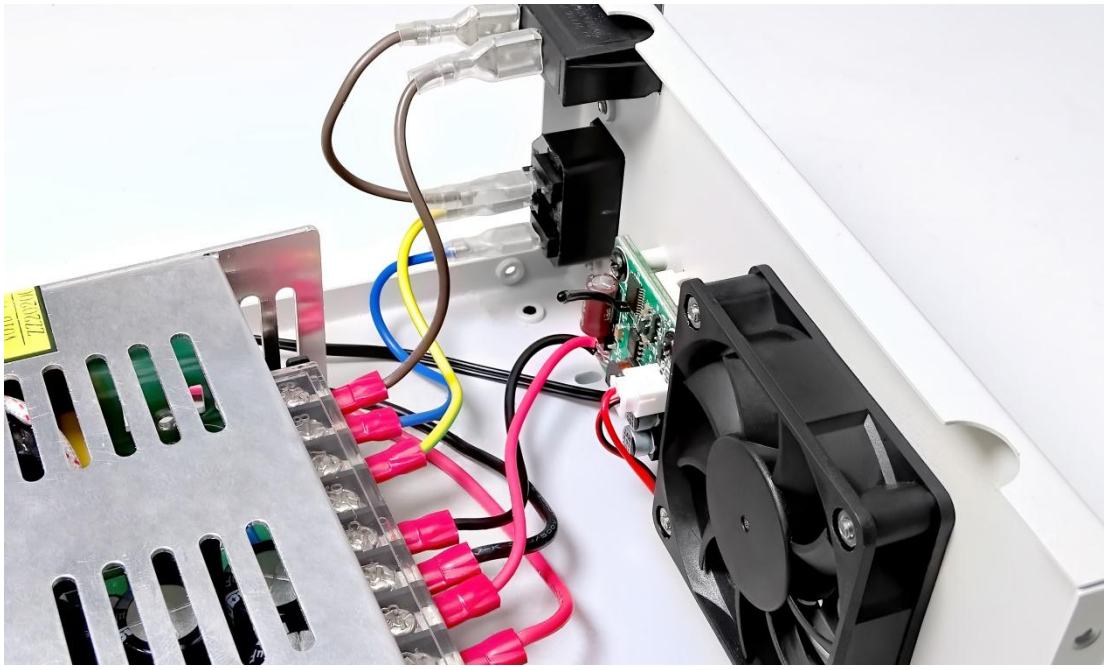
Install the switch power supply on the lower board



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

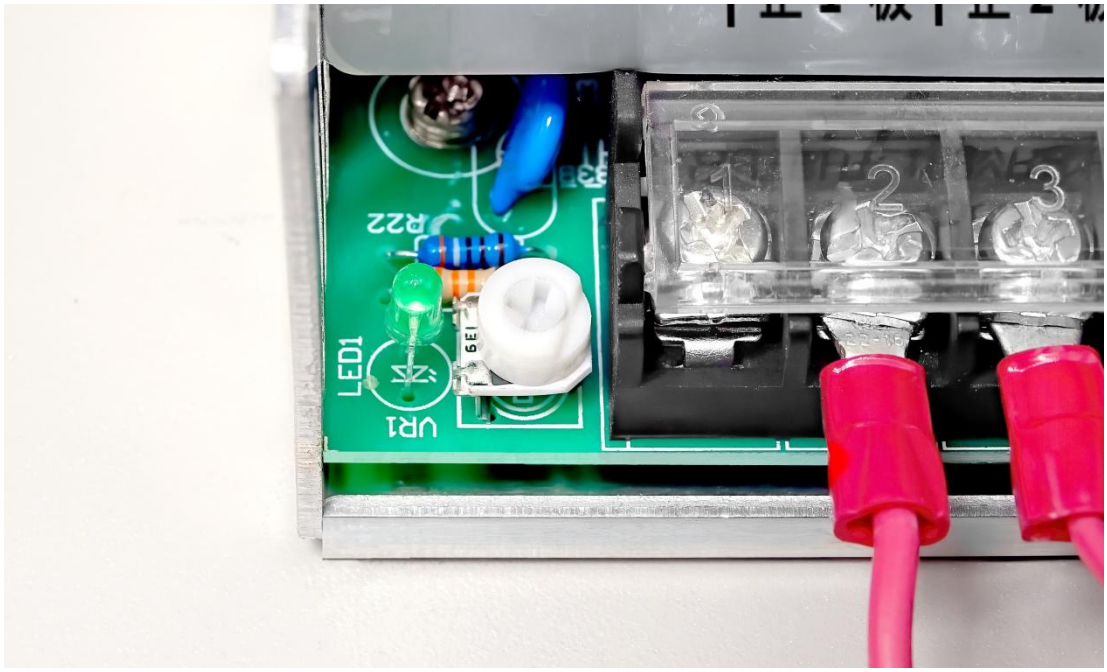
Install the board of temperature sensor extension cable and fan board on the back panel, use brown cable to connect the rocker switch and the live wire (L) of the switch power supply; then use the brown cable to connect the rocker switch and the live wire (L) of the AC power socket; Use the blue cable 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 (⏚) of switch power supply. Insert the cable of the fan to the fan board as shown below.

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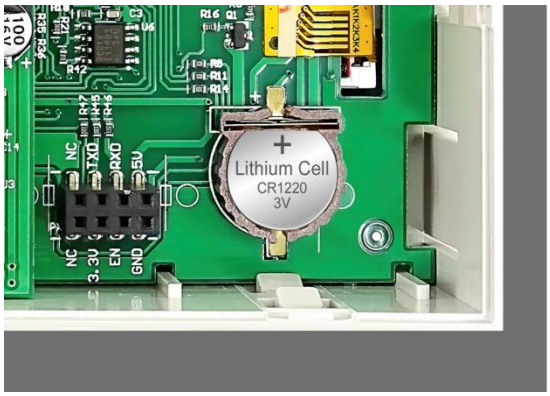
⑦Switch power supply test:

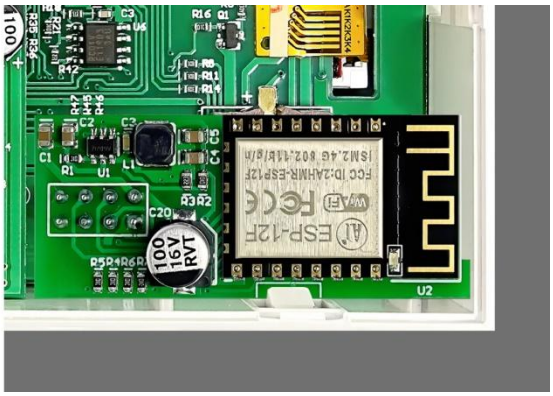
Check the wring again and power on the switch power supply, and use test pencil to check the power and insulation status. Then use multimeter to check if the 65V output is normal, then use screw driver to adjust the output of the switch power supply to 68V.



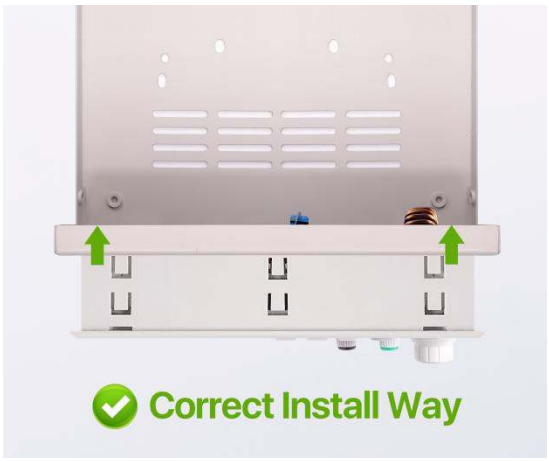
⑧ Install RD6006, install the CR1220 battery (prepare yourself) and wifi board (if you order the wifi version), then insert the RD6006 in the right way

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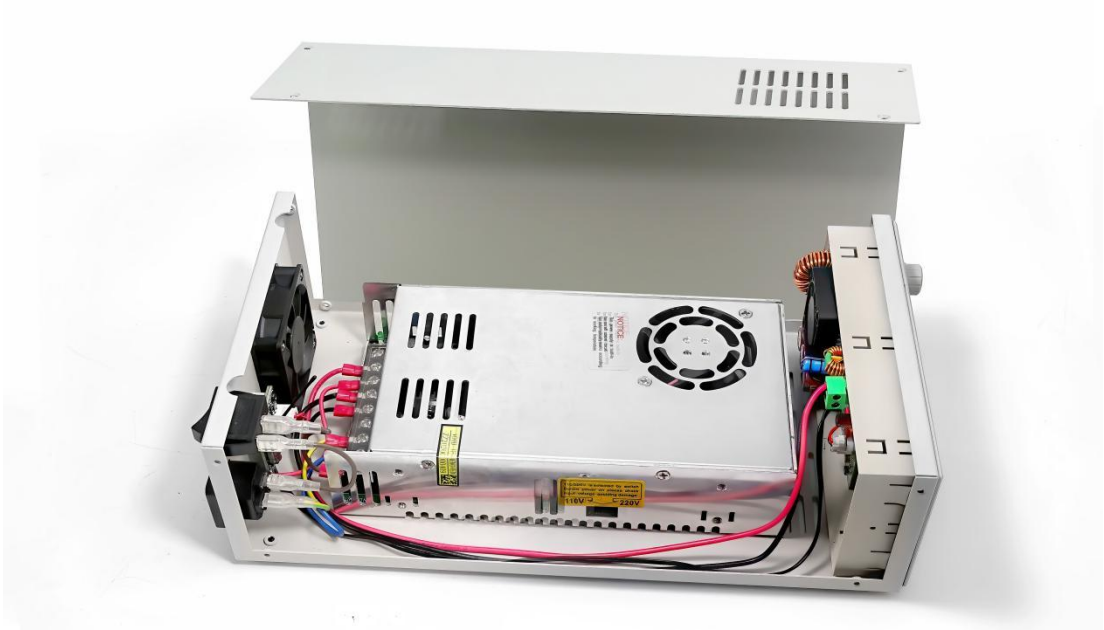








⑨Connect the rest cables: connect the green terminal to the input of RD6006 and insert the temperature sensor extension cable to the socket on the back of RD6006.



⑩Power 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℃, it will work for 3 seconds and then stop, and it will run at low speed below 40℃-50℃, run at medium speed below 50℃-60℃, run at full speed when the temperature exceeds 60℃)

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⑪Install 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:

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