

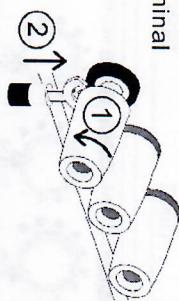
3 Set Up

Attention before operation

1. AC Input Voltage: $220V \pm 10\%$, 50Hz
2. Avoid to use if ambient temperature over $40^{\circ}C$. In order to ensure the service life of equipment and safety, the machine must be placed in well-ventilated place for heat dissipation.

Load line connection

- ① Counter clock wise to unlock the terminal
- ② Insert load line terminal
- ③ Clockwise rotation to lock up terminal, place banana plug into the terminal



Load wire type

Load wire is the accessories for customer to purchase. must confirm the current capacity enough compensation load before purchase. Each wire pressure drop will be no more than 0.5 V below table shows the current rating



Constant voltage output setup

Output mode : Constant voltage (CV) and constant current (CC). output mode determined by customer set up for voltage ,current and the loads. Output voltage and current will not over customer's set up. Under constant voltage mode.output voltage equals to customers set up. Under constant current mode,output current equals to customers set up.

Operating steps:

1. Turn on power
2. Voltage setup
Regulating voltage knob, Set up voltage to 6V as figure 1 shows
3. Current setup
Using wire connect terminal "+" and "-" as figure 2, set up current at 5A as figure 3
4. Disconnect the wire, connect the load

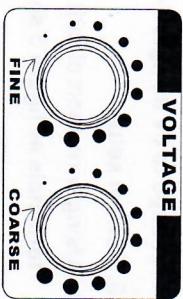
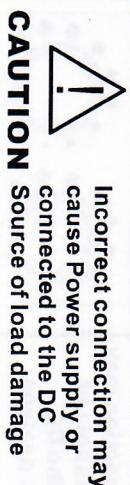


figure 1



figure 2



When the load connected to the battery and other do not "+" "-" Poles reverse, this may result in damage to the DC power supply

CAUTION



If the load resistance is reduced to cause the output current in the actual CV operation, increase When the current is added to the current set value, the power supply will automatically switch to the CC mode, when the negative Contained the resistance continues to decrease, the current will be maintained at the current setting. Voltage pro rata Decreased ($I = V / R$) at this time to increase the load resistance or increase the current set value resumable CV output state.

Constant current output setup

Eg:voltage set up at 6V,Current set up at 5A

operating steps:

1. Turn on power
2. Voltage set up
Regulating voltage knob, Set up Voltage to 6V as figure 4 shows
3. Current setup
Using wire short circuit the "+" and "-" terminals as figure 5 shows,Regulating voltage knob, set current as 5A as figure 6 shows
4. disconnect wire and connect to load



figure 4

1. Turn on power
2. Voltage set up
Regulating voltage knob, Set up Voltage to 6V as figure 4 shows
3. Current setup
Using wire short circuit the "+" and "-" terminals as figure 5 shows,Regulating voltage knob, set current as 5A as figure 6 shows
4. disconnect wire and connect to load

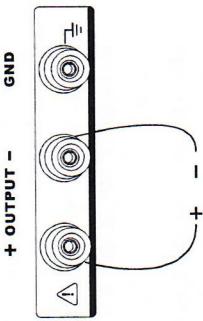
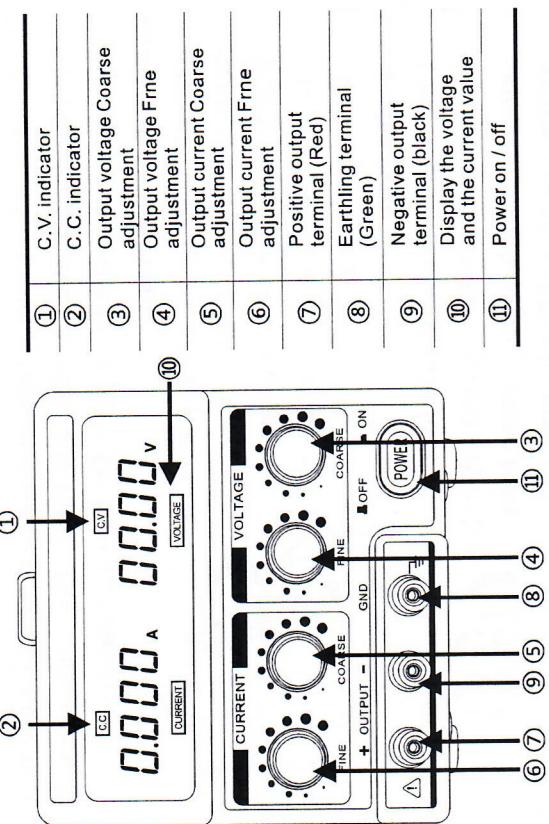
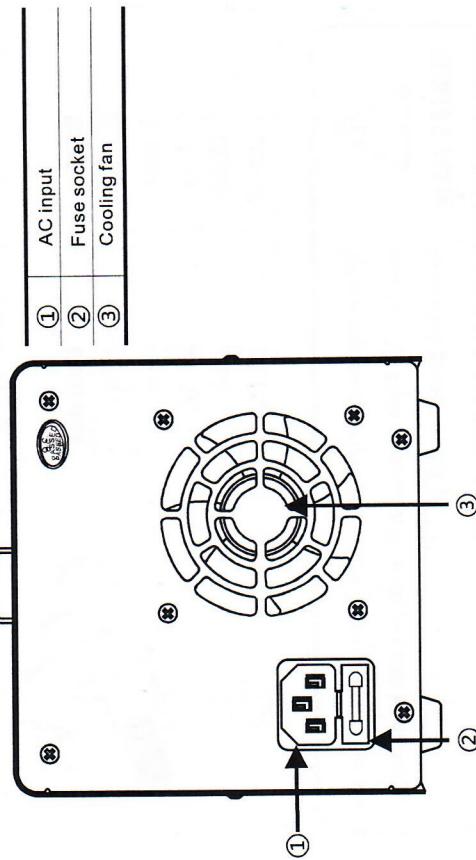


figure 5

Front panel



Rear panel



3

2 Operation panel Overview

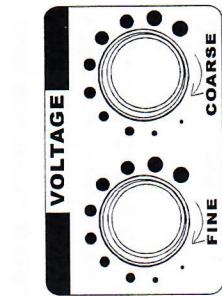


figure 4

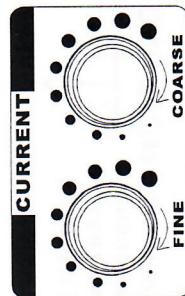


figure 6

In actual CC operation, if the load resistance is increased to cause the output voltage increases, Voltage increases to a voltage set value, the power supply will be automatically switched to the CV mode, when the negative Contained the resistance continues to increase, the voltage will remain at the voltage setting, current press Decline in the proportion of ($I = V / R$) to reduce the load resistance or voltage setting that Recoverable CC state.

CAUTION



6

1 Instructions for use

! Checking before use

CAUTION

inspection

When you receive the product ,check all below items.

1. Check whether there is the damage caused by transportation

Please keep product after all electrical test if it is found that the packing carton or foam plastic protection pad serious damage if there is a mechanical damage or loss, or dc power supply has been through the electrical and mechanical test, please and responsible for the business agent

2. Checking product

If it is found that the packing carton or foam plastic protection pad serious damage. Please first reserve, until the machine and accessories through the electrical and mechanical test. For transport caused by damage to the dc power supply, the delivery party and the carrier shall contact for matters concerned. The company will not undertake free repair or replacement.

3. Checking accessories

If any of the accessories are damaged or missing, please contact your vendor or Zhaoxin

Power check

Please use the attach cable to power up and follow below items for electric inspection

1. Output voltage checking

(1)No-Load, open power switch,make sure current set up to me MAX

(2)Let power supply working under constant voltage status,C V indicator light up,checking voltage can be adjusted from 0 to max

2. Current output checking

(1) Set voltage at 6V,using wire connect "+" and "-" terminals to let them short circuit

(2) when CC indicator light up, checking can current adjust from 0 to max

4 Common Troubleshooting

1. The power does not turn on and no display

(1)Checking connect it correctly

(2)Checking fuse is correct and in good condition.

2. Constant voltage output is not normal:

(1)Check the maximum output power whether meet the load requirement.

(2)if meet,please checking below:

Check current setting is appropriate, if too low, may be appropriately increase the current setting connection negative load and power cable if there is a short circuit or break phenomenon, whether good contacts to check whether the load problems.

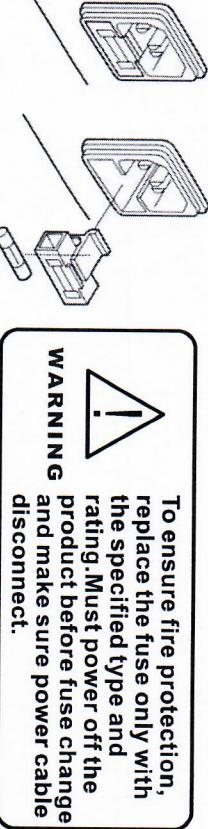
3. Constant current output is not normal:

(1) Check the maximum output power whether meet the load requirement

(2) if meet , please checking below:

Check voltage setting is appropriate, if too low, may be appropriately increase the voltage setting connection negative load and power cable if there is a short circuit or break phenomenon, whether good contacts to check whether the load problems

5 FUSE Replacement



WARNING To ensure fire protection, replace the fuse only with the specified type and rating.Must power off the product before fuse change and make sure power cable disconnect.

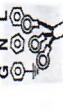
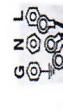
1. Turn off the power cord and remove the fuse socket using a minus driver.
2. Replace the fuse in the holder.



Specification

Model	RPS-2002DB	RPS-3002DB	RPS-3003DB	RPS-3005DB
DC output range				
Voltage	0-20V	0-30V	0-30V	0-30V
Current	0-2A	0-2A	0-3A	0-5A
Input Voltage:	AC 220V ±10% 50Hz			
Working temperature:	0°C ~ 40°C	Relative humidity	<90%	
Storage temperature:	-10°C ~ 70°C	Relative humidity	<80%	
Constant Voltage:	Voltage stability		≤0.1% +2mV	
	Load stability		≤0.1% +2mV	
	Ripple & noise		≤1mVrms (effective value)	
Constant current	Current stability		≤0.1 % +3mA	
	Load stability		≤0.2 % +3mA	
	Ripple & noise		≤2mA rms (effective value)	
Auto Cooling:	Start the fan when the heat sink temperature ≥ 50 ° C			
Display color:	Voltage: Blue Current: Blue			
Display accuracy:	±1%±1Word			
Display Resolution:	Voltage 0.01V Current 0.001A			
Size(LxWxH mm):	278×160×170			
Weight:	3Kg	3.32Kg	4.1Kg	4.62Kg
Fuse:	1A	1A	1.5A	1.5A

! SAFETY INSTRUCTION

	Carefully read manual before use please carefully read this manual and avoid severe impacts or rough handling that leads product damage.
	Line Voltage Ensure power supply to this product under manual requirements.
	FUSE Make sure the correct type of fuse is installed before power up.
	Do not disassemble Do not disassemble this power supply
	Grounding Connect the protective grounding conductor of the AC power cord to an earth ground, to avoid electrical shock.
	Pay attention to handling safety. Avoid severe impacts or rough handling that leads to damaging knobs or keys on panel
	Cleaning Keep product clean and dry to prevent performance affect.

Terminology and symbols on products

The following terms and symbols may appear on the product:

	Identifies conditions or practices that could result in injury or loss of life.
	CAUTION DANGER High Voltage
	Earth (Ground)
	Protective Conductor Terminal

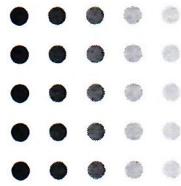
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USER MANUAL

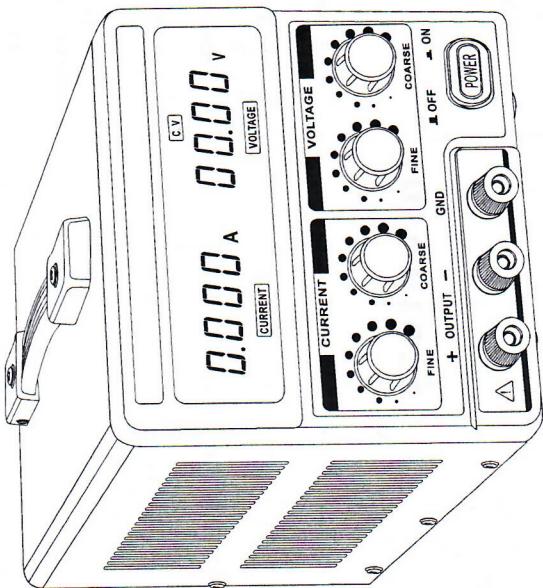
DC Power Supply

RPS series



Model:

- | | |
|----------|--------------|
| RPS-202D | RPS-2002D(B) |
| RPS-302D | RPS-3002D(B) |
| RPS-303D | RPS-3003D(B) |
| RPS-305D | RPS-3005D(B) |



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