



# REGULATED DC POWER SUPPLY

**APS-1303/1305**

**Users Manual**



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**Thanks for using our products, please read this manual thoroughly before operation.**

## GENERAL

- This power supply is a regulated DC power supply which you can adjust the current and the voltage continuously. We use the LED to display the values of the current and the voltage. And the output terminal is a 4mm and safe “banana” jack.
- This power supply can be used in the electronic circuit such as the operational amplifier, digital logic circuit and so on. The users include the electron fans, research people and the professional people.
- We use the 3 1/2 LED to display the values of the voltage and the current.
  - 1) the voltage display accuracy: LED 1%2 byte
  - 2) the current display accuracy: LED 1%2 byte

## SPECIFICATIONS

- **Model:** APS-1303/1305
- **Input voltage:** 220V ± 10%
- **Frequency range:** 50Hz
- **Input current:** 2A/3A
- **Output:** DC 0~30V, 0~3A/0~5A
- **Voltage regulation**  
(C.V.): ≤ 30mV  
(C.C.): ≤ 15mA
- **Ripple:** < 3mVrms
- **Operating temperature:** +0°C ~ +40°C
- **Storage temperature:** -20°C ~ +80°C
- **Storage and operating humidity:** ≤ 80%RH
- **Altitude:** ≤ 2000m
- **Pollution Degree:** 2
- **Dimensions:** 260(L) × 150(W) × 160(H)mm
- **Net weight:** 5.3kg
- **Gross weight:** 6kg

## FEATURES

- Voltage and current adjustable outputs.
- One display for adjusted voltage and current.
- Over voltage protection.
- Short circuit protection.
- Over temperature protection.

## THE INSTRUCTION OF THE FRONT PANEL

- |  |                                |
|--|--------------------------------|
| (1) <b>Current meter:</b> display the output current value | (7) Voltage indicator          |
| (2) <b>Voltage meter:</b> display the output voltage value | (8) Output voltage coarse knob |
| (3) <b>Power switch:</b> control the power                 | (9) Output voltage fine knob   |
| (4) Output current fine knob                               | (10) Power output “-” terminal |
| (5) Output current coarse knob                             | (11) Output “+” terminal       |
| (6) Current indicator                                      | (12) Ground (Earth terminal)   |



The series front panel figure

## OPERATIONS

1. Ensure that the power plug of this unit is connected to the AC110V or 230V power supply before using, switch the power ON, and adjust the (8)~(9) knobs to make the voltage to the desired value, and then plug your output cords in the output terminal (10)~(11), now the current meter (1) will show the current value, if you want to get the desired current value, you can calibrate the knob (4)~(5).
2. The limiting value of the output current is 3A (but it is different with the models), you must disconnect the power immediately when it is over load (the over load indicator (6) is on).
3. Setting of current limiting.
  - Make sure the maximum safe current of outside load.
  - Use a short-circuit wire to short the current terminals (+) to (-).
  - Adjust the current knob to till the CC indicator on.
  - Adjust the current knob to the desired ampere.
  - After setting the current value cover load protection . Then do not change the current control knob.
  - Take off the short circuit wire. It is standby status now.
4. The equipment is used in a manner not specified by the manufacture, the protection provided by the equipment may be impaired..

## SAVETY DEVICE AND MAINTENANCE

1. You should keep this unit in the dry and good ventilation place after using. Disconnect the power cord if you don't use it for a long time.
2. Do not put device on moist or wet background.
3. The device is designed for indoor use only.
4. Do not turn out for any extreme temperatures of direct solar radiation or extreme humidity or wetness.
5. Replace defect fuse only with the original value fuse, please avoid short circuit of fuse and holder. The fuse is located on the rear panel adjacent to the power cord receptacle.
6. Fuse rating is f3AL, 250VAC, but it is different with the models.

7. Please take care of good temperature ventilation. Do not block the ventilation holes in the rear and side panel, as this will increase the internal temperature.
8. Please keep the device out of children.
9. Do not put any liquid near of the unit to avoid short circuit.
10. Do not place the system near of strong magnetic fields.
11. Before operation the system must be temperature stabilized to avoid humidity.
12. Opening of the system and service is only allowed qualified service personal.
13. Ground the chassis by only using a three-contact AC power cable which must be plugged into an approved three-contact electrical outlet, and do not attempt to defeat the ground wire connection or float the device to do so may pose a great safety hazard.
14. Clean and recalibrate the equipment on a regular basis to keep the equipment looking nice and working will.
15. Remove the dirt, dust whenever they become noticeable on the outside cover with a dry cloth.
16. If the equipment ever becomes inoperative or damaged, refer servicing to a qualified repair facility.
17. Pay your attention to warning-signs printed on the instrument.



**Protective earth terminal**  
**Connecting equipment only to a socket with grounded neutral conductor.**



**Attention, consult accompanying documents.**

## ACCESSORIES

This instrument is supplied with the following accessories:

- Power cable ..... 1pcs
- Operation manual ..... 1pcs