

Accessories

This instrument is supplied with the following accessories:

- Power cable 1pcs
- Operation manual 1pcs

- 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.

- Clean and recalibrate the equipment on a regular basis to keep the equipment looking nice and working well.

- Remove the dirt, dust whenever they become noticeable on the outside cover with a dry cloth.

- If the equipment ever becomes inoperative or damaged, refer servicing to a qualified repair facility.

- 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.

APS3003S/3005S

REGULATED DC POWER SUPPLY

Operating Instructions

Welcome to use **ATTEN DC Power supplies**, read this manual before operating this unit.

General

This power supply is a regulated DC power supply which you can adjust the current and the voltage continuously. We use the LCD or 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 LCD or LED to display the values of the voltage and the current.

1) the voltage display accuracy: LCD or LED 1%2 byte
2) the current display accuracy: LCD or LED 1%2 byte

Specifications

- Model :AP33003S/3005S
- Input voltage :110V ± 10% / 230V ± 10%
- Frequency range :60Hz / 50Hz
- Input current : 2A(less than 3A full load)
- Output :DC 0-30V/0-3A/5A
- Voltage regulation
- (C.V.) : 1×10^{-4} + 10mV
- (C.C.) : 5×10^{-4} + 10mA
- Ripple : 1 mVrms
- Operating temperature : +5°C ~ +40°C
- Storage temperature : -40°C ~ +80°C
- Storage and operating humidity: 10 ~ 90%RH
- Altitude : ≤ 2000m
- Pollution Degree: 2
- Dimensions: 252(L) × 150 (W) × 171 (H) mm
- Net weight: 5.3kg
- Gross weight: 6kg

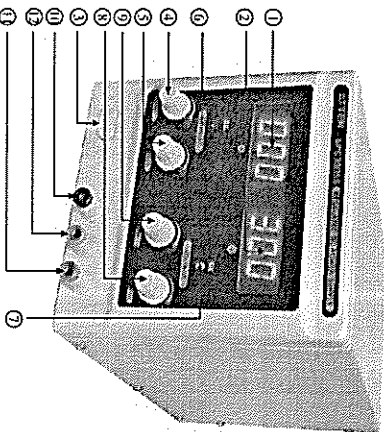
Model	Output voltage current	Output current range
TPR3003-D	0-30V Adjustable	0-3A Adjustable
TPR3003-S	0-30V Adjustable	0-3A Adjustable
TPR3003NU	0-30V Adjustable	0-3A Adjustable
TPR3003-3	0-30V Adjustable	0-3A Adjustable
TPR3003-3C	0-30V Adjustable	0-3A Adjustable
TPR3005-S	0-30V Adjustable	0-3A Adjustable
TPR3005-3	0-30V Adjustable	0-3A Adjustable
TPR3005-D	0-30V Adjustable	0-3A Adjustable
TPR3005-3C	0-30V Adjustable	0-3A Adjustable
TPR3005-S	0-30V Adjustable	0-3A Adjustable
TPR3008-S	0-30V Adjustable	0-3A Adjustable
TPR3010	0-30V Adjustable	0-3A Adjustable
TPR3020	0-30V Adjustable	0-3A Adjustable
TPRE3003	0-30V Adjustable	0-3A Adjustable
AP33003S	0-30V Adjustable	0-3A Adjustable
TPR3003S	0-30V Adjustable	0-3A Adjustable
TVR3005S	0-30V Adjustable	0-3A Adjustable
TPR3003-S-3D	0-30V Adjustable	0-3A Adjustable
TPR3005-S-3D	0-30V Adjustable	0-3A Adjustable
TVR3005-D-3C	0-30V Adjustable	0-3A Adjustable
TPR3003-S-3D	0-30V Adjustable	0-3A Adjustable
TPR3005-S-3D	0-30V Adjustable	0-3A Adjustable
TVR5003-D-3C	0-50V Adjustable	0-3A Adjustable
TVR5005-D-3C	0-50V Adjustable	0-5A Adjustable

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) Current meter: display the output current value
- (2) Voltage meter: display the output voltage value
- (3) Power switch: control the power
- (4) Output current fine knob
- (5) Output current course knob
- (6) Current indicator
- (7) Voltage indicator
- (8) Output voltage coarse knob
- (9) Output voltage fine knob
- (10) Power output "+" terminal
- (11) Output "-" terminal
- (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 fill 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 manufacturer, the protection provided by the equipment may be impaired.

Safety device and maintenance

- 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.
- Do not put device on moist or wet background.
- The device is designed for indoor use only.
- Do not turn out for any extreme temperatures or direct solar radiation or extreme humidity or wetness.
- 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.
- Fuse rating is 3A, 250VAC, but it is different with the models.
- 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.
- Please keep the device out of children.
- Do not put any liquid near of the unit to avoid short circuit.
- Do not place the system near of strong magnetic fields.
- Before operation the system must be temperature stabilized to avoid humidity.
- Opening of the system and service is only allowed qualified service personal.