

3、Instructions

[3-1] Cautions:

- 1、Ac input according to the rear panel (110V/ 220V switch):
switch to 110V: $110V \pm 10\% 60\text{Hz}$.
switch to 220V: $220V \pm 10\% 50\text{Hz}$.
- 2、Do not use where the environmental temperature 40°C , the fan is located in the instrument back, should leave enough space.
- 3、The output voltage overshoot: when switching power supply, the output voltage is less than the preset.

[3-2] Limiting current Settings:

- 1、Decisions a maximum safe current for your instruments
- 2、The power supply with a shorter route temporarily (+) and (-) terminal short circuit. (the voltage must be adjusted below 10 v)
- 3、Rotating voltage control knob until the CC indicator bright
- 4、Adjust the current knob to the desired current value
- 5、Current value (overload protection) has been set, then do not change the current knob
- 6、Remove the short circuit, can enter the working state.

[3-3] Working:

- 1、Put the power switch in "OFF" position.
- 2、To ensure that the input voltage.
- 3、Input power and put the power switch in "ON" position
- 4、Adjust the "VOLTAGE" and "CURRENT" knob to the required VOLTAGE and CURRENT value.
- 5、External loads connected "+", "-" output terminals.

[3-4] The characteristics of constant voltage/current

This series of characteristics of the power supply is called constantvoltage/ current type automatic transformation, It can vary with the load at constant voltage and constant current state of continuous transformation. For example, if the load to make the power work in constant voltage mode, just output stability Constant voltage. As the load increases, the output voltage will remain stable, Until you reach the preset current limit value, After arrived at current limit value, Output current is stable, The output voltage is inversely proportional to the load, CV indicator bright means constant voltage and CC indicator bright means constant current.

SWITCHING DC POWER SUPPLY

PS series is a single set of output, high precision double display Switching DC power supply. Machines have complete operating protection function, with high performance, low ripple, high stability, light weight and small volume etc. Current limiting protection can make PS power supply and load against accidental damage.

PS series power supply is equipped with low temperature control circuit, the cooling fan noise is low.

1 Parameter Specification

[1-1] Rated working conditions

- (1) Power supply voltage 220V+10% for 50hz
(Can be customized to 110V)
- (2) Working conditions: 0 to 40 ; < 85% RH
- (3) Storage conditions: -10 to 70 ; < 90% RH
- (4) The output mode (see product specification)

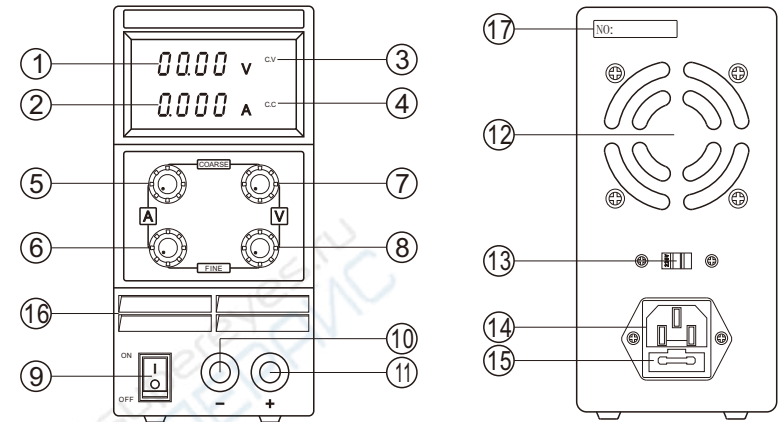
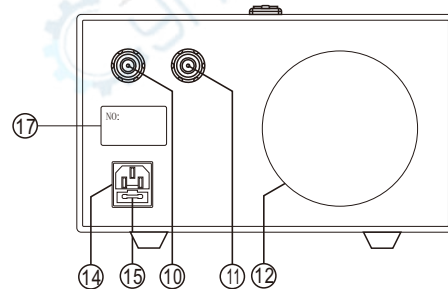
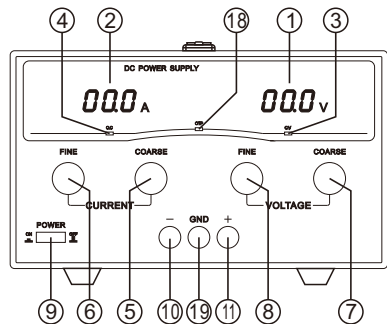
[1-2] Steady current working status:

- (1) The output current is adjustable from 0 between nominal value
- (2) Ripple noise $\leq 5\text{mArms}$
- (3) Current stability $\leq 0.2\% + 3\text{mA}/5\text{mA}$
Load stability $\leq 0.2\% + 3\text{mA}/5\text{mA}$

[1-3] Steady voltage working status:

- (1) the output voltage is adjustable from 0 between nominal value
- (2) Voltage stability: $\leq 0.01\% + 3\text{mV}$; Load stability $\leq 0.01\% + 5\text{mV}$
- (3) Recovery time:
 $\leq 100\mu\text{S}$ (50% load changes, minimum load current 0.5 A)
- (4) Ripple noise: $\leq 0.5\text{mVrms}$ (5Hz - 1MHz)
- (5) temperature coefficient $\leq 3000\text{PPM/}$

2、Panel control and indicator



- ①、Voltage output display
- ②、Current output display
- ③、Stable voltage indicator light
- ④、Stable current indicator light
- ⑤、Current adjustment roughly
- ⑥、Current adjustment fine-tuned
- ⑦、Voltage adjustment roughly
- ⑧、Voltage adjustment fine-tuned
- ⑨、The power switch
- ⑩、“-” Output: negative polarity (black)
- ⑪、“+” Output: positive polarity (red)
- ⑫、Fan (with temperature control)
- ⑬、110 V / 220 V switch (according to clients' need)
- ⑭、Power socket
- ⑮、Fuse box
- ⑯、Vents
- ⑰、Serial number
- ⑱、Over-temperature protection
- ⑲、“GND” output: grounding (green)