

Thank you for your trust in our Power Products. After purchasing this DC Power Series products, please read the instructions carefully and keep them in a safe place for better use.

Overview

This power supply is DC regulated power supply, the output voltage and current are continuously adjustable, 4-digit LED display, display output voltage, current and output power, and provide common 5V voltage USB interface. The power supply is small in size, high in efficiency, moderate in weight, and can be used for a long time under full power conditions, and the continuous operation failure rate is low. The power supply has various protection functions such as over temperature, overload, current limit, etc., and users can use it with confidence. For research, colleges, factories and other occasions.

Technical parameters

1. Rated working conditions and dimensions:

Input voltage: $220V \pm 10\%$ @50Hz, or $110V \pm 10\%$ @60Hz, manual switching

Working environment: Temperature: $-10^{\circ}C \sim 40^{\circ}C$ Relative humidity: $<80\%$

Storage conditions: Temperature: $-20^{\circ}C \sim 80^{\circ}C$ Relative humidity: $<70\%$

Dimensions: 285x128x145mm

2, power supply effect:

$CV \leq 0.1\% + 10mV$

$CC \leq 0.1\% + 10\text{mA}$

3. Load effect:

$CV \leq 0.1\% + 5\text{mV}$

$CC \leq 0.1\% + 10\text{mV}$

4, ripple and noise:

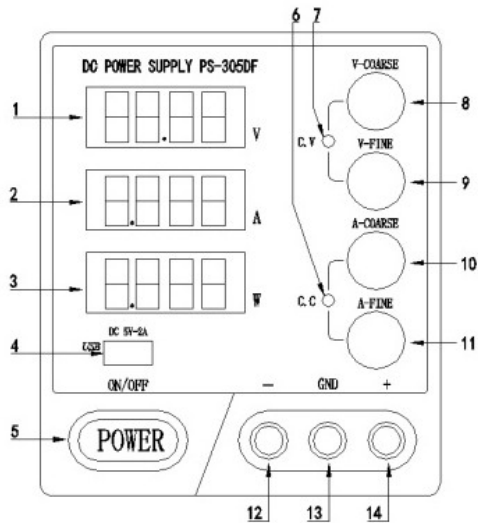
$CV \leq 20\text{mV r.m.s.}$

$CC \leq 20\text{mA r.m.s.}$

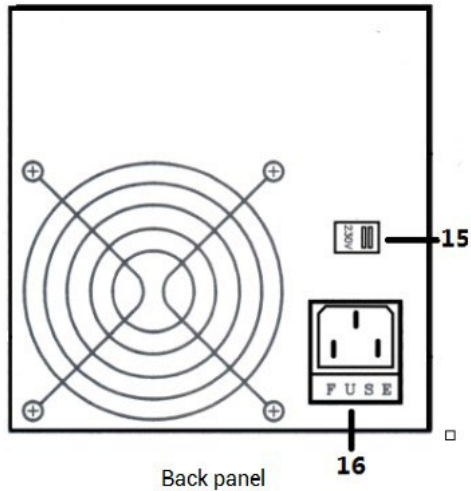
4, display mode accuracy:

4-digit LED digital display, display accuracy $\pm 0.1\% \pm 1$ word

Panel:



Front panel



1. Voltage display: used to display the current output voltage value in volts (V).
2. Current display: used to display the current output current value in amps (A).
3. Power display: used to display the current output power value in watts (W).
4. USB power supply: provide positive 5V, 2A regulated output, the interface is USB style.
5. Power switch: When this switch is pressed, the power is turned on. Conversely, the power is turned off when you bounce.
6. Constant current indicator: When this indicator is lit, it indicates that the power supply is working in constant current.
7. Constant voltage indicator: When this indicator is lit, it indicates that

the power supply is working in constant voltage.

8, 9 voltage coarse adjustment and fine adjustment: adjust the output voltage value. 9 can finely adjust the output voltage value.

10, 11 current coarse and fine adjustment: adjust the output current value. 11 can finely adjust the output current value.

12, 13, 14 power output terminal: 12 is the negative output of the power supply; 14 is the positive output of the power supply; 13 is the grounding wire, connected to the power supply casing.

15, 110V/220V input switch: input voltage switch, this switch must be consistent with the input voltage, otherwise it will cause the power supply can not be used normally, or even cause power damage.

16. AC power input and fuse: used to input AC power. The fuse is located below the input interface.

Operation:

Note:

(1) AC input: Confirm that the input voltage is consistent with the switching voltage. When switching at 220V, the input voltage must be between 198-242V. When switching to 110V, the input voltage must be between 99-121V.

(2) Working environment: There should be enough space around the power supply to facilitate heat dissipation. When the internal temperature exceeds 75 °C, the power supply will stop working. When the internal temperature is lower than the over-temperature protection threshold, the power supply starts automatically.

Operation steps:

(1) Turn on the power with a three-wire power cord. (Make sure the input voltage is correct.)

(2) Press the 5 power switch. The indicator lights up and the LED is displayed.

(3) Regulator source use: adjust the 10 and 11 knobs clockwise to the maximum, adjust 8, 9 to the required voltage value, connect the load to the 12 and 14 terminals (note the positive and negative polarity is correct), at this time 7 constant When the voltage indicator lights up, the power supply operates in a regulated state, that is, the voltage does not change, and the current magnitude changes with load.

(4) Steady flow source use: adjust the 8 and 9 knobs clockwise to the required voltage, adjust 10, 11 to the minimum, connect the load to the 12, 14 binding posts (note the positive and negative polarity is correct), adjust clockwise 10, 11 to the required current value, at this time 6 steady current indicator lights up, the power supply works in steady current state, that is, the current does not change, and the voltage changes with the load.

Maintenance

1. Insurance tube replacement:

If the fuse is blown, you need to find out the cause. If the machine is not faulty, you can replace it with the same capacity fuse.

2, maintenance:

This power supply is precisely calibrated before leaving the factory, and non-professionals should not open it without authorization. If there is internal damage, please contact the dealer, the high voltage inside the

machine, please do not repair it yourself!

Attachment

User manual	1
Power cord	1