

DPS DC power supply.

Description

DPS series digital input DC regulated power supply is designed for laboratory, school, production lines and electronic repairing. This power supply has characteristics of high voltage stability, small ripple factor and with a perfect circuit and over-current protection, even short circuit would not damage it. The unique design of keyboard input makes it easier to operate and with a higher precision compared with traditional items. It is built with switching button to easily control the output.

Parameters

1. Nominal working condition and dimension

Input voltage 110V/ 220V \pm 10% 50/60Hz

Operating condition: 0-40 $^{\circ}$ C 80% relative humidity

Storage condition: -10-70 $^{\circ}$ C 70% relative humidity

Dimension: 265 x 128 x 150mm (D xW xH)

Weight: 2.3KG

2. Parameters of regulated state

The voltage output from 0 to 30V between continuous and adjustable (resolution 0.1V)

The precision of output voltage: \pm 0.1V

Voltage stability: <0.01%+3mv

Load stability: <0.01%+3mv

Recovery time: 100uS

Ripple noise voltage: < 1mVRMS (5Hz-1MHz)

Temperature coefficient: <300PPM/C

3. Parameters of constant current state

Output of current: 0-5A

Constant current output accuracy: $\pm 0.01A$

Current stability $<0.1\%+3mA$

Load stability $<0.1\%+3mA$

Ripple noise current $< 3mARMS$

4. OCP overcurrent automatic cutoff parameter

OCP current value: 0-5A Accuracy: $\pm 0.01A$)

5. Accuracy of voltage and current display

Voltage display accuracy: $\pm 0.1V$ (constant current state)

Current display accuracy: 0.000---0.45A: $\pm 0.001A$

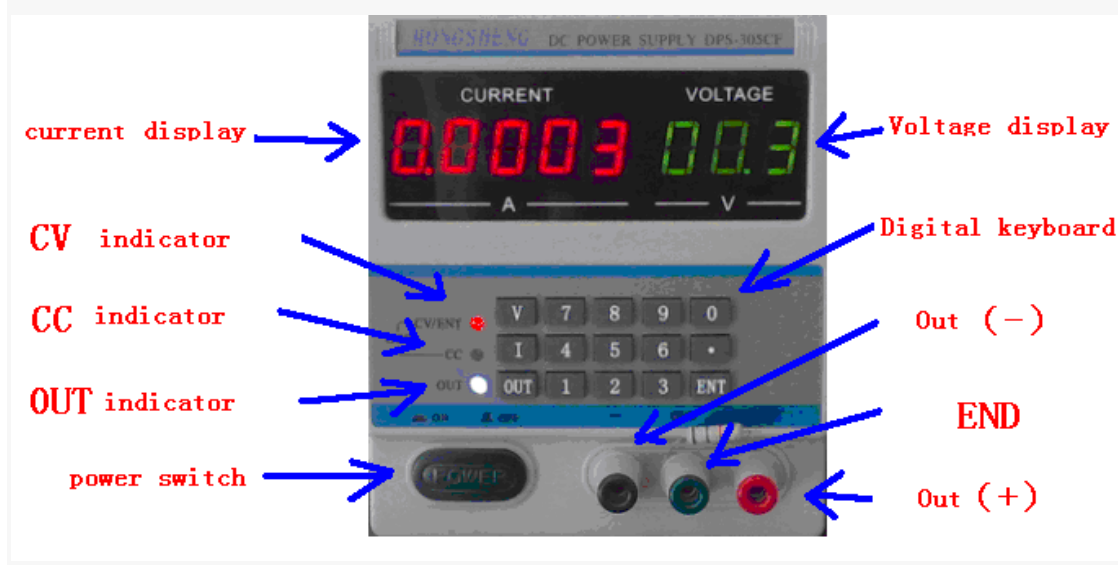
0.45----5A $\pm 0.01A$

6. Voltage step range

10V/1V/0.1V lifting voltage step

Panel features

Front panel



Instructions

1. Voltage input

A). Step input

a. The initial code is 3333333.

“123” “789” keys are separately used for 10V/1V/0.1V step lifting. In order to prevent misoperation, we should press “4” and “1/7” at the same time to increase or reduce “10V”.

b. “setting” to prevent misoperation of step lifting, the state code is 4444444. (not recommended for users)

Method of setting: Press “4” before turning on the power supply. Release immediately after digital tubes display 4. With this setting, you must press “4” and “8” simultaneously to rise 1V and press “4” and “9” to rise 0.1V. And the same way for reducing operation.

Notes: Power supply can automatically memorize the setting status;

It is of the same way to return to factory setting.

B) Keyboard input

Press “v” and the value you want, the press “ENT”.

2. DPS DC power supply has two kinds of current protection mode: CC constant current protection and OCP automatic cut-off protection.

The power supply is in “CC constant current protection status” when “CV” light is on. Under this status, when output current is larger than the “set constant current value”, the power supply would automatically turns into CC(constant current) status, “CV” indication light would be “OFF” and “CC” indication “ON”. It would still keep working for a current output of setting.

Power supply is on “OCP protection” state when “CV” and “CC” indicator light at the same time. Under this status, the power supply would stop output when overload, and the “OUT” light would be off.

Notes: Default current protection mode is “CC”. Please keep pressing “4” and then press “1”, it would turn into “OCP” protection mode.

3. The power supply would automatically output when turn it gets powered. (Default)

Press the “OUT” button and then turn on the power switch, there will be code of “22222222” on display, and it will not automatically output.

4. This power supply is of “no fan” design, but with interface to install fans.

You can install one by yourself if you need it to work continuously for a time longer than 24 hours

Points for attention

1. Ground: three core power line to the protective earth terminal earth must be reliable access security, to ensure that users and peripheral equipment safety.
2. Placing: To ensure power supply service life, please keep it in well-ventilated environment (23 ± 5 °C), do not put it where ambient temperature is over 40 °C .
3. Abnormal operation: the power supply mode of operation and a normal operation without causing power failure, but may damage the load

Annex

1 power line 1

2 video manual 1

3 Certificate / guide to using 1 pieces

www.hongshengdy.com

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