

功能说明

打开或者关闭输出:

在任何界面,短按 **⏻** 即可打开输出或者关闭输出。

锁定按键防止误操作:

在任何界面,长按编码电位器两秒以上,即可锁定按键,同时右侧状态栏有锁定标志,再次长按编码电位器两秒以上,即可解锁按键,同时右侧状态栏有解锁标志。

内设M0-M9共10组存储数据组:

第0组为上电调用的默认数据组,且手动操作调出的数据组都会覆盖第0组数据,并且自动保存在第0组中。

快捷调出M1或M2数据组数据:

在主界面中,长按 **M1/↑** 或 **M2/↓** 两秒以上,对应数据组数据即可调出,同时右侧状态栏会提示已调出的数据组序号。

调出指定数据组数据:

在主界面中,长按 **SET** 两秒以上,右侧状态栏会提示数据组序号,转动编码电位器调整至所需数据组序号,短按 **SET** 即可调出指定数据组数据。

售后服务

- ★ 支持七天无理由退换货,如质量问题,我们承担来回运费
- ★ 三个月内出现质量问题免费换新,我们承担来回运费
- ★ 一年内出现质量问题免费维修,运费各自承担

属于下列情况之一者,不在免费保修范围内:超过三包有效期;未按产品使用说明书要求或由于使用不当(烧毁、浸液、摔坏等)而造成损坏;擅自拆解、维修、升级等造成功能异常;因不可抗力造成的损坏。

运费条款仅适用于中国大陆地区。

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本产品出厂前
经检验合格

如需退回,请填写好产品保修卡一并发回

产品保修卡

产品名称: 数控恒压恒流电源0-50.00V、0-5.000A

产品型号: DP50V5A 退回原因:

购买日期: 购买途径:

用户姓名: 用户电话:

用户地址:

Please read this instruction carefully before using



Constant Voltage Constant Current Programmable Control Supply Power Module

Product model: DP50V5A

General Information

The constant voltage and constant current programmable control power supply module put the collection of analog integration and digital control functions in one. Its adjustable output voltage range is 0-50.00V, step by 0.01V. Its adjustable output current range is 0-5.000A, step by 0.001A. This module has power-down stored function and can store 10 groups preset value. And it also has the function of extracting quickly two groups stored value. Compared with the traditional analog power supply, it is more convenient to quickly extract the voltage or current required. LCD display on the module has the function digital voltmeter and ammeter. You can view the preset voltage, input voltage, output voltage, the preset current, output current, output power, etc. on the output state remind area, you can see that output opens or not, the state of constant voltage and constant current, output is normal or not, the key is locked or not, and the current data groups that is being used. On the setting data interface, you can adjust over-voltage value, over-current value, over-power value, data set and LCD brightness. This module has many advantages, small size, advanced function, good visual effect, high operability, high-precision, being used independently, being inset into the device and been widely applied.

Technical parameters

Input voltage range: 6-55V

Output voltage range: 0V-50.00V

Output current: 0-5.000A

Output power range: 0-250W

Product Weight: 113g

Output voltage resolution: 0.01V

Output current resolution: 0.001A

Product Dimension: 79mmX43mmX48mm

Open size: 71mmX39mm

Output Voltage accuracy: $\pm (0.5\% + 1 \text{ digit})$

Output Current accuracy: $\pm (0.5\% + 2 \text{ digits})$

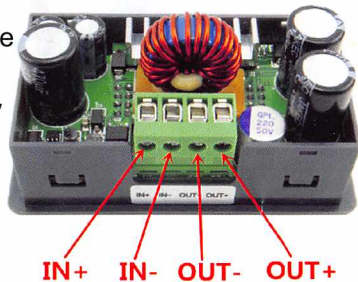
Note: You must make sure that input voltage is 1.1 times higher than output voltage. Under large current circumstances, pay attention to heat elimination.



Connection description

IN+: Input positive **IN-:** Input negative
OUT+: Output positive **OUT-:** Output negative

Note: Input voltage range is 6-55V and 55V is the limit voltage; please leave a room to use, or else it will be burnt. The input must be DC-DC, not AC 220V, or else it will be burnt too. Though this module has reverse connection protection and output short circuit protection, you must be in strict accordance with connection description to connect. If you connect the supply power with output, the module will be burnt.



Panel description

Shortcut extract M1 data group/ Page up to choose

Data setting/ Extract value of the specified data group/ Store value into the specified data group

Shortcut extract M2 data group/ Page down to choose



1.44 inch color LCD screen

Coding potentiometer/ Data adjustment/ Lock all buttons

Open or close output

Display interface description

The preset value of output voltage

The actual value of output voltage

The actual value of output current

The actual value of output power

The actual value of input voltage



The preset value of output current

Key lock or unlock prompt

Output normal or not prompt

Constant voltage and constant current status prompt

Data set prompt

Open or close output prompt

The main interface

Preset output voltage

Preset output current

Preset over-voltage

Preset over-current

Preset over-power

Preset screen brightness

Preset data set



The actual value of output voltage and output current

Data setting interface

操作说明

上电后首先显示欢迎界面，然后跳转进入主界面。在主界面中，屏幕最上方显示的是输出设定电压电流值，屏幕左边大字体分别显示当前实际输出的电压值、电流值、功率值，屏幕最下方显示的是系统的输入电压值，屏幕右侧状态栏显示的是运行状态标志，依次是按键锁标志、异常输出状态标志、恒压恒流标志、数据组提示标志、开关输出标志。



欢迎界面



主界面

在主界面中快速设定输出电压电流值:

短按一次 **SET**，可进入数据设定状态，此时按动电位器，可逐位循环切换选中电压电流数字，当数字被选中时，转动电位器可以改变数字大小，顺时针旋转增大，逆时针旋转减小。数据调节好后，按 **SET** 保存当前设定数据并退出，或者1分钟内无任何操作会自动保存并退出设置，数据设定完成。

数据设定界面中参数的设定

在主界面中，连续按两次 **SET**，可进入数据设定界面。在数据设定界面中，短按 **M1/↑** 或 **M2/↓**，调节至 U-SET、I-SET 处，同样可设定输出电压电流值，设定方法同主界面中设定一致。



数据设定界面

设置保护值:

调节至 S-OVP、S-OCP、S-OPP 处，分别可对过压值、过流值、过功率值进行设定，达到设定值，关闭输出。短按编码电位器进入设置，旋转编码电位器调节至所需数值后，短按 **SET** 退出设置。

调节屏幕背光亮度:

调节至 B-LED 处，短按编码电位器进入设置，旋转编码电位器调节至所需数值，短按 **SET** 退出设置。屏幕背光有6个亮度等级，0级-5级，0级最暗，5级最亮，根据个人喜好自行设定。

设置数据并保存指定数据组:

调节至 M-PRE 处，短按编码电位器进入数据组序号选择，旋转编码电位器调节至所要查看的数据组，此时该数据组的所有设置数据会显示出来。再次短按编码电位器，进入调出数据输出控制选项，旋转编码电位器可以选择 ON/OFF，选择 ON 时，调出数据后立即更新并维持原输出状态，选择 OFF 时，调出数据立即更新但无输出。短按 **SET** 然后短按 **M1/↑** 或者 **M2/↓** 调节至其他选项处，短按编码电位器按键进入设置，调整所有数值后，长按 **SET** 两秒以上，所有数据自动存入指定数据组中，同时右侧状态栏会提示已存入的数据组序号，此时可短按 **SET** 回到主界面。

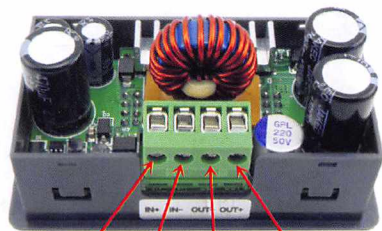
接线说明

IN+ : 输入正极 OUT+ : 输出正极
 IN- : 输入负极 OUT- : 输出负极
 输入电压范围: DC6-55V

注:55V为极限最高电压, 请一定留余地使用, 否则将导致损坏。

直流输入, 不可使用交流220V直接供电, 否则将烧坏。

虽然本产品具有输入反接保护、输出短路保护, 但**请严格按照接线说明接线**; 如果将供电接到了输出端, 将可能导致产品烧坏。



输入 输入 输出 输出
 正极 负极 负极 正极

面板说明

向上选择/M1
数据快捷调出

数据设置/调出
指定组存储数据/
数据存入指定组

向下选择/M2
数据快捷调出



1. 44寸彩色
液晶显示屏

编码电位器:
数据调整/
锁定所有按键

开关输出

显示界面说明

输出电压设定值

输出电压检测值

输出电流检测值

输出功率检测值

输入电压检测值



输出电流设定值

按键是否锁定指示

输出是否正常指示

恒压/恒流状态指示

数据组提示

输出开/关状态提示

主界面

输出电压设定

输出电流设定

过压值设定

过流值设定

过功率值设定

亮度设定

数据组设定



当前输出电压、
电流检测值

数据设定界面

Operating instructions

When connect the power supply, the screen shows welcome window firstly and then comes into main interface.

On the main interface, the output set voltage value and the output set current value is on the top of the screen.

The big font value on the left are the actual output voltage, the actual output current and the actual output power. Input voltage is on the bottom of the screen. There are some running status icons on the right of the screen, key lock icon, abnormal output status icon, constant voltage and constant current icon, data set tip icon and opening or closing output icon.

Set the output voltage and output current on the main interface.

On main interface, press **SET** shortly, you can enter into data setting status. Press coding potentiometer to enter into the status of adjusting the numerical value you want to adjust. Turn coding potentiometer to adjust the numerical value. Turn by clockwise rotation to increase the numerical value; Turn by counterclockwise to decrease the numerical value. If you want to exit adjusting the numerical value, press **SET** shortly. In the same time the preset value will be stored. Or you can do nothing in one minute, the status will be automatically existed and the preset value will be stored too.

Set the data on the data setting interface

On the main interface, you can press **SET** twice to enter into the data setting interface. On the data setting interface, press shortly **M1/▲** or **M2/▼** to page up or page down to U-SET or I-SET, the operation way is consistent with the way of setting the output voltage and output current on the main interface.

Set the protection value.

Page up or page down to S-OVP, S-OCP or S-OPP place to set over-voltage value, over-current value and over-power value correspondingly; when the value is up to the setting value, output will be closed. And then press shortly the coding potentiometer to enter into the status of adjusting the numerical value you want to adjust. Turn coding potentiometer to adjust the numerical value. If you want to exit adjusting the numerical value, press shortly **SET** key.

Adjust the brightness of screen.

Page up or page down to B-LED, and then press shortly the coding potentiometer to enter into the status of adjusting the brightness of screen. Turn coding potentiometer to adjust the numerical value you need. If you want to exit adjusting the numerical value, press **SET** shortly. There are six brightness levels of LCD screen, 0-5 level. Rank 0 is the darkest; rank 5 is the brightest. You can choose what you like.



Welcome window



Main interface



Data setting interface

Data setting and store the specified data group.

Page up or page down to M-PRE, and then press shortly the coding potentiometer to enter into the status of choosing the data groups. Turn coding potentiometer to choose the data group you need to view. Then the data group you need will be displayed. And then press the coding **SET** potentiometer to enter into status of changing output state. Turn coding potentiometer to choose ON or OFF. When choose ON, the data group is extracted and the output status remain the same. When choose OFF, the data group is extracted and the output is closed. If you want to exit choosing the data group, press **SET** shortly. Then press shortly **M1/↑** or **M2/↓** to page up or page down to other place to adjust the data you need. After data setting done, keep pressing **SET** more than 2s, all the data you set are automatically stored into the specified data group. In the same time, you can see the group number on the right of screen. Now you can press **SET** shortly back to the main interface.

Function description

Open or close the output:

You can press **⏻** to open or close the output on any interface.

Lock the button to avoid wrong operation:

On the any interface, you can keep pressing coding potentiometer more than 2s, all buttons are locked. You can see the key lock icon on the right of screen. If you want to unlock all buttons, keep pressing coding potentiometer more than 2s, all buttons are unlocked. The key unlock icon will be display on the right of screen.

M0-M9 ten data groups:

M0 group is the boot default data group. When you extract the data group you need, this data group will cover M0 data group and be automatically stored on M0 data group.

Extract Shortcut storage data group M1 or M2:

On the main interface, keep pressing **M1/↑** or **M2/↓** more than 2s, the corresponding data group will be extracted. In the same time the corresponding data group number will displayed on the right of the screen.

Extract the specified data group:

On the main interface, keep pressing **SET** more than 2s, the sequence number of data group will be displayed on the right of the screen, you can turn coding potentiometer to choose data group you need. And then press **SET** shortly, you can extract the specified data group you need.

使用前请仔细阅读此说明



数控恒压恒流电源0-50.00V/0-5.000A

产品型号: DP50V5A

产品简介

该数控电源是集模拟调整和数字控制于一身, 输出电压0-50.00V可调, 步进0.01V, 输出电流0-5.000A可调, 步进0.001A。产品带有掉电预设值存储功能, 可存储10组预设值, 并可快捷调出两组设定值。自带液晶显示, 具有电压电流表功能, 通过液晶可方便查看预设电压、预设电流、输出电压、输出电流、输出功率、输入电压等。输出状态提示区域可以方便的看出当前是否打开/关闭输出、恒压/恒流输出状态、输出是否正常、按键是否锁定以及当前正在调用的数据组。在数据设定界面中还可以对过压值、过流值、过功率值、数据组、液晶亮度等进行调整。本产品体积小、功能先进、可视效果好、可操作性强、精度高, 既可独立使用, 也可嵌入到设备中, 应用范围广。

产品参数

产品型号: DP50V5A

输出功率范围: 0-250W

输出电压范围: 0-50.00V

输出电流范围: 0-5.000A

【注】必须保证输入供电电压是输出电压的1.1倍以上。
大电流工作时请注意加强散热。

产品重量: 约113克

外形尺寸: 79mmX43mmX48mm

开口尺寸: 71mmX39mm

输出电压设定与读取分辨率: 0.01V

输出电流设定与读取分辨率: 0.001A

输出电压测量精度: $\pm (0.5\%+1\text{个字})$

输出电流测量精度: $\pm (0.5\%+2\text{个字})$



Hangzhou Ruideng Technologies Co., Ltd