

Constant Voltage Constant Current Programmable Control Supply Power Module

Attention!!!

1. Before buying this product, please download the upper computer software and test. If it fits your computer, you can buy.

http://www.prodctodc.com/Pro Manual/

- 2. The upper computer only support for Win7 and above.
- 3. When you get this product, please do not use your hands to touch the components, because human static electricity can damage some chips.
- 4. The operation of Bluetooth panel, please consult the file OPERATING MANUAL in the link we have mentioned.



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 overvoltage value, overcurrent value, over-power value, data groups, LCD brightness, etc. 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: 6.00-55.00V Output current: 0-5.000A Product weight: about 113g

Open size: 71mm*39mm

Output current resolution: 0.001A

Output current accuracy: ± (0.5% + 2 digits)

Output voltage range: 0V-50.00V Output power range: 00.00-250.0W

Product dimension: 79*43*48(mm) (L*W*H) Output voltage resolution: 0.01V

Output voltage accuracy: ± (0.5% + 1 digit)

NOTE:

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

When the current is more than 10A or the temperature is more than 45 °c, the fan will begin to work, when the temperature is more than 65°c, the module will stop working.

Connection Description

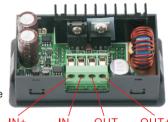
IN+: Input positive IN-: Input negative **OUT+:** Output positive **OUT-:** Output negative

Input voltage range is DC 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 power supply, not AC 220V, or else it will be burnt too.

Though this module has reverse connection protection and output short circuit protection, you can muse be in strict

accordance with connection description to connect. If you connect the supply power with output interface, the module will be burnt.



Panel and Display Interface Description

Panel description:

- 1-Voltage setting/Page up to choose/Shortcut extract M1 data
- 2-Data setting/ Extract value of the specified data group/Store value into the specified data group
- 3-Current setting/Page Down to choose/ Shortcut extract M2 data
- 4-1.44 inch color LCD screen
- 5-Coding potentiometer/Data adjustment/ Lock all buttons
- 6-Open or close output



Display interface description:

7-The preset value of output voltage

8- The actual value of output voltage

9-The actual value of output current

10-The actual value of output power

11-The actual value of input voltage

12-The preset value of output current

13-Lock or unlock icon

14-Output normal or not prompt

15-Constant voltage and constant current status prompt

16-Data group prompt

17-Open or close output prompt

18-Preset output voltage

19-Preset output current

20-Preset over-voltage

21-Preset over-current

22-Preset over-power

23-Preset screen brightness

24-Preset data set

25-The actual value of output voltage and output current



Data setting interface



Operating Instructions

- When connect the power supply, the screen shows welcome window firstly and then comes into main interface.
- Set the voltage and current output value on the main interface:



Welcom window



Main interface

S-0VP:51.00V

S-0CP:5.200A

S-OPP:265.2W

B-LED:

M-PRE:MØ OFF

Press V/↑ shortly, you can enter into voltage setting status. Then press the coding potentiometer, and then enter to adjust the numerical value. 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 shortly V/↑. 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 will be stored too. You can press A/\pi to set the output current by the same way.

Set the data on the data setting interface:

On the main interface, you can press SET key shortly to enter into data setting interface. On the data setting interface, press shortly V/\u00f3 or A/\u00f4 to page up or page down to U-SET or I-SET, and then set the output voltage current value by same way used in the main interface.

Set the protection value:

Data setting interface Page up or page down to S-OVP. S-OCP or S-OPP 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 setting interface. When the potentiometer is adjusted to the needed value, shortly press SET to exit.

Adjust the screen backlight brightness:

Adjust to B-LED, shortly press the coding potentiometer to enter into the status of adjusting the brightness of screen. When the potentiometer is adjusted to the needed level, shortly press SET to exit. There are six brightness levels of LCD screen, 0-5 level, Rank 0 is the darkest; rank 5 is the brightest. You can set what you like.

• Data setting and store the specified data group:

Turn to M-PRE, shortly press the coding potentiometer to enter into the choice of the data groups orders. Turn coding potentiometer to data group you need to view. Then the data group you need will be displayed. And then press the coding potentiometer to enter into callout data output control option. Turn coding potentiometer to choose ON/ OFF, If choose ON, after extracting data, it is updated and the output status remain the same. If choose OFF, after extracting data, it is updated, but without output. If you want to exit choosing data set, press shortly SET key. Then press shortly V/\u00f3 or A/\u00f4 to page up or page down to other place to adjust the data you need. After data setting done, keep pressing SET key more than 2s, all the data you set are automatically stored into the specified data group. In the same time, the right status bar will display the data group number. At last, you can press shortly SET key back to the main interface.

Set default boost or close output

Turn to S-INI, shortly press the coding potentiometer to enter into the setting status. ON means default boot open: OFF means default boot close.

Functions Description.

Open or close the output:

You can press ON/OFF key 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 displayed on the right of screen.

M0-M9 ten groups data group

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 V/↑or A/↓ more than 2s, you can extract Shortcut storage data group M1 or M2 quickly. 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 key 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 shortly press SET key, you can extract the specified data group vou need.