

DIGITAL PANEL MOUNT PSU 50V 5A



Panel Mount
Adjustable DC
Power Supply Module
With Voltmeter / Ammeter And Color
Display

SPECIFICATIONS	
Input voltage range	6.00-55.00V
Output voltage range	0.00-50.00V
Output current	0.000-5.000A
Output power range	00.00-250.0W
Product Weight	78g
Product Dimension	79 x 43 x 48(mm) (L x W x H)
Open size	71mm x 39mm
Output voltage resolution	0.01V
Output current resolution	0.001A
Output Voltage accuracy	± (0.5% + 1 digits)
Output Current accuracy	± (0.5% + 2 digit)

General Information

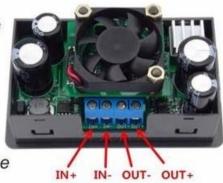
The constant voltage and constant current programmable control power supply module put the collection of analog integration and digital control functions in one. Its adjustable output voltage range is 0-50,00V, step by 0.01V. Its adjustable output current range is 0-3.000A, step by 0.001A. This module 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 an intelligent long-life ball bearing fan. When the output current is more than 0.5A, the fan will start working automatically to help product cooling to ensure output big power. 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.

Connection description

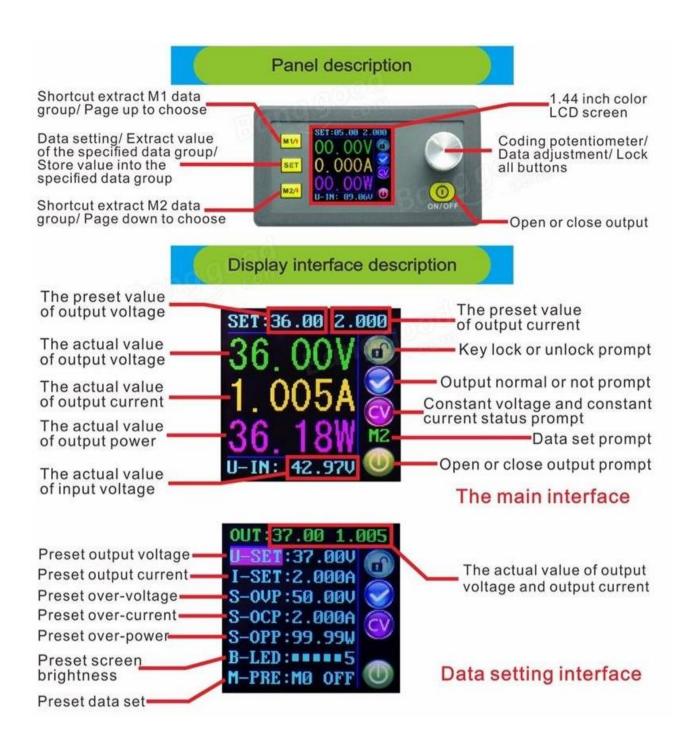
IN+: Input positive IN-: Input negative
OUT+: Output positive OUT-: Output negative
Note: Input voltage range is 6-55V and 55v

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 can muse be in strict accordance with connection description to connect. If you

connect the supply power with output, the module will be burnt.



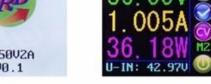
(Fan is fitted only in some modles)



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 current real output voltage, the current





Welcome window

Main interface

SET:36.00 2.000

real output current and the current real 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. Then press the coding potentiometer, and then enter to adjust the numerical value. 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 will be stored too.

Set the data on the data setting interface

On the main interface, you can press **SET** twice to enter into data setting interface. On the data setting interface, press shortly M1/t or M2/t 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.



Data setting

Set the protection value.

Page up or page down to S-OVP, S-OCP or S-OPP interface 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 SET shortly.

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.

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 M1/1 or M2/1 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 (1) 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/t or M2/t 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.