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WPS-380S Series DC Power Supply

User Manual

MATRIX TECHNOLOGY INC.

Applicable models: WPS380S-40-60,WPS380S-80-30,
WPS380S-200-12.5, WPS380S-360-7.5,
WPS380S-500-5, WPS380S-800-3,
WPS380S-1000-2.5

Version number: V1.1

Preface

Dear user

Hello! Thank you for choosing the brand new MATRIX instrument equipment. In order to use this instrument correctly, please carefully read the entire manual before using it, especially the section on "Safety Precautions".

If you have read the entire manual, it is recommended that you keep it properly and place it with the instrument or in a place where you can read it at any time for future use.

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Verification and calibration statement

Our company hereby declares that the instruments and equipment listed in this manual fully comply with the specifications and characteristics specified in our company's technical specifications. This instrument has passed the factory calibration of our company before leaving the factory, and the calibration procedures and steps comply with the specifications and standards of the electronic inspection center.

Safety precautions

The following general safety precautions must be followed during each stage of instrument operation. If these preventive measures or specific warnings described in other parts of this manual are not followed, it will violate safety standards related to the design, manufacturing, and use of the instrument. Our company does not assume any responsibility for users' non-compliance with these preventive measures.

Caution

- Do not use damaged equipment. Before using the equipment, please check if it is in good condition. Do not operate this equipment in environments containing explosive gases, vapors, or dust.
- The power supply comes with a three core power cord, and your power supply should be connected to the three core junction box. Before operating the power supply, you should first ensure that the power supply is well grounded to avoid accidental injury!
- Before connecting the device, please observe all markings on the device.
- Please always use the cable connection equipment provided by the instrument at the factory to avoid accidental injury.
- Using wires with appropriate rated loads, the capacity of all loaded wires must be able to withstand the maximum short-circuit output current of the power supply without overheating. If there are multiple loads, each pair of load wires must be able to safely carry the full load rated short-circuit output current of the power supply.
- To reduce the risk of fire and electric shock, please ensure that the voltage fluctuation of the mains power supply does not exceed 10% of the working voltage range.
- If using a power source to charge the battery, confirm the positive and negative polarity of the battery during wiring, otherwise it may burn out the power source!
- Do not use this device when removing or loosening the cover.
- Do not install replacement parts on the instrument or perform any unauthorized modifications.
- We are not responsible for any direct or indirect financial losses that may occur when using this product.
- It is strictly prohibited to use this device on life support systems or any other equipment with safety requirements.
- If the device is not used in the way specified by the manufacturer, it may damage the protection provided by the device.
- Please always use a dry cloth to clean the equipment casing. Do not clean the interior of the instrument.

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catalogue

Chapter 1 Product Introduction

This series of DC power supplies is a high-quality DC regulated power supply, with a novel appearance, small size, light weight, simple operation, high accuracy, and good stability. Five digit high-precision LED display window, displaying voltage, current, and power simultaneously, bringing great convenience to users' use and operation. The resolution can reach 1mV/0.1mA, with low ripple noise. It is a replacement product of ordinary power supplies, with high cost-effectiveness, and can be widely used in production, research and development, scientific research and teaching, and other fields.

This series of power supplies has the following characteristics:

- Five digit high-precision LED display window
- Voltage and current can be adjusted using a digital keyboard or knob
- Simultaneous display of voltage, current, and power
- 1mV/0.1mA resolution
- List output function
- Low ripple and low noise
- Intelligent fan control, saving energy and reducing noise
- Optional communication interface, supporting SCPI and MODBUS commands
- Equipped with temperature monitoring function
- Equipped with overvoltage, overcurrent, and over temperature protection functions
- 9 sets of data storage

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Chapter 2 Technical Specifications

2.1 Main technical specifications

Technical Specification Table for WPS-380S Series Programmable DC Stabilized Voltage Power Supply (23 ℃± 5 ℃):

Model		WPS380S-40-60	WPS380S-80-30	WPS380S-200-12.5	WPS380S-360-7.5
Rated output voltage		0-40V	0-80V	0-200V	0-360V
Rated output current		0-60A	0-30A	0-12.5A	0-7.5A
Rated output power		800W	800W	800W	800W
Load regulation rate	Voltage	≤0.02%+8mV	≤0.02%+8mV	≤0.02%+8mV	≤0.02%+5mV
	Current	≤0.02%+5mA	≤0.02%+5mA	≤0.02%+5mA	≤0.02%+5mA
Line regulation rate	Voltage	≤0.02%+8mV	≤0.02%+8mV	≤0.02%+8mV	≤0.02%+5mV
	Current	≤0.02%+5mA	≤0.02%+5mA	≤0.02%+5mA	≤0.02%+5mA
Setting resolution	Voltage	1mV	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA
Read back resolution	Voltage	1mV	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA	0.1mA
Setting accuracy (25℃±5℃)	Voltage	≤0.1%+8mV	≤0.1%+8mV	≤0.1%+8mV	≤0.1%+10mV
	Current	≤0.2%+2mA	≤0.2%+2mA	≤0.2%+2mA	≤0.2%+2mA
Read back accuracy (25℃±5℃)	Voltage	≤0.1%+8mV	≤0.1%+8mV	≤0.1%+8mV	≤0.1%+10mV
	Current	≤0.2%+2mA	≤0.2%+2mA	≤0.2%+2mA	≤0.2%+2mA
Ripple and noise (25℃±5℃)	Voltage	<8mVms	<8mVms	<8mVms	<10mVms
	Current	<5mAms	<5mAms	<5mAms	<3mAms
Temperature coefficient	Operating	0 to 40℃≤80R.H.			
	Storage	-15 to70℃≤80R.H			

Model		WPS380S-500-5	WPS380S-800-3	WPS380S-1000-2.5
Rated output voltage		0-500V	0-800V	0-1000V
Rated output current		0-5A	0-3A	0-2.5A
Rated output power		800W	800W	800W
Load regulation rate	Voltage	≤0.02%+5mV	≤0.02%+5mV	≤0.02%+5mV
	Current	≤0.02%+5mA	≤0.02%+5mA	≤0.02%+5mA
Line regulation rate	Voltage	≤0.02%+5mV	≤0.02%+5mV	≤0.02%+5mV
	Current	≤0.02%+5mA	≤0.02%+5mA	≤0.02%+5mA
Setting resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA
Read back resolution	Voltage	1mV	1mV	1mV
	Current	0.1mA	0.1mA	0.1mA
Setting accuracy (25℃±5℃)	Voltage	≤0.1%+10mV	≤0.1%+10mV	≤0.1%+10mV
	Current	≤0.2%+2mA	≤0.2%+2mA	≤0.2%+2mA
Read back accuracy (25℃±5℃)	Voltage	≤0.1%+10mV	≤0.1%+10mV	≤0.1%+10mV
	Current	≤0.2%+2mA	≤0.2%+2mA	≤0.2%+2mA
Ripple and noise (25℃±5℃)	Voltage	<10mVms	<10mVms	<10mVms
	Current	<3mAms	<3mAms	<3mAms
Temperature coefficient	Operating	0 to 40℃≤80R.H.		
	Storage	-15 to70℃≤80R.H		

2.2 Supplementary characteristics

State memory capacity: 9 sets of operational states
Recommended calibration frequency: 1 year/1 time
Heat dissipation method: forced air cooling
Operating environment temperature: 0 to 40 ℃
Storage environment temperature: -20 to 60 ℃
Usage environment: Indoor design, pollution level 2, maximum humidity of 80%.

Chapter 3 Quick Start

This chapter will briefly introduce the appearance and basic functions of this series of DC regulated power supplies, allowing you to quickly understand this series of DC regulated power supplies. At the same time, we will inform you of the basic checks to be carried out after receiving this power supply to ensure the normal operation of this product.

3.1 Introduction to Front and Rear Panels

The front panel of the power supply is shown in the following figure:

Figure 3.1 Front panel of WPS-380S series DC regulated power supply

① Model specification label
② Constant voltage, constant current, and output status indication
③ Number keys and function keys
④ power switch
⑤ Positive pole of output terminal
⑥ Negative pole of output terminal
⑦ knob
⑧ Voltage, current, and power display windows

The rear panel of the power supply is shown in the following figure.

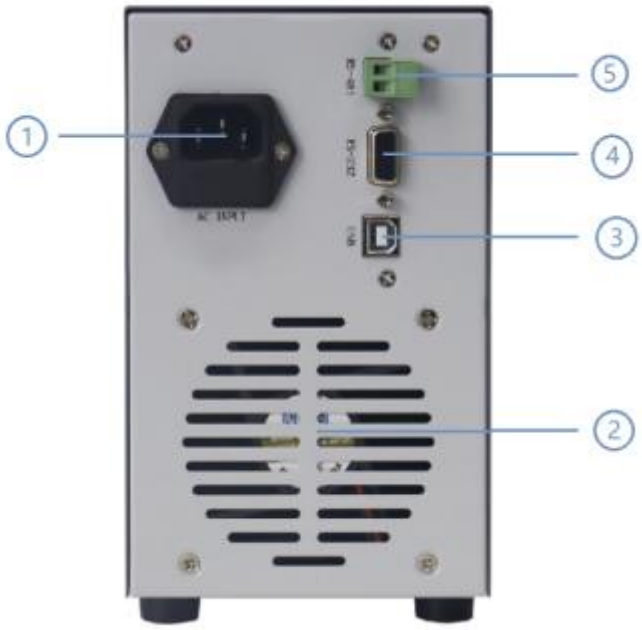


Figure 3.2 Rear panel of DC regulated power supply

① Power input socket
② Heat dissipation hole
③ USB communication interface
④ RS-232 communication interface
⑤ RS-485 communication interface

3.2 Pre inspection

Please follow the steps below to check the power supply to ensure it can be used properly.

1. Inspection

Please check if you have received the following attachments while receiving the power supply. If there are any missing items, please contact the nearest dealer.

☐ One power cord (in accordance with the voltage standards used in the local area)
☐ One operation manual (standard)
☐ One certificate of conformity (standard configuration)

2. Connect the power cord and turn on the power

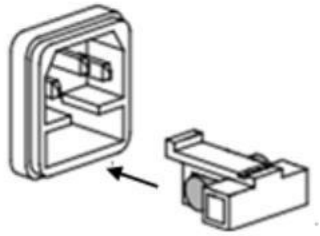
After powering on, the power supply first performs a system self test and then enters standby mode.

Warning: The power supply comes with a three core power cord, and your power supply should be connected to the three core junction box. Before operating this power supply, you should first ensure that the power supply is well grounded.

3.3 If the power supply cannot start

1. Check if the power cord is properly connected
2. Replacement method of fuse

Use a screwdriver to open the small plastic cover under the power input socket on the back panel of the power supply, and you can see the fuse. Please use a fuse that meets the specifications.



Model	Fuse specification 220V
WPS380S-40-60	6.3 A
WPS380S-80-30	6.3 A
WPS380S-200-12.5	6.3 A
WPS380S-360-7.5	6.3 A
WPS380S-500-5	6.3 A
WPS380S-800-3	6.3 A
WPS380S-1000-2.5	6.3 A

Chapter 4 Panel Operation

This chapter will provide a detailed introduction to the operation of the power front panel, which is divided into the following parts:

- Keyboard Description
- Introduction to Front Panel Operation
- Voltage setting operation
- Current setting operation
- Store/Call Operations
- Menu Actions
- Output on/off operation
- List operation
- Overvoltage/overcurrent protection function

Keyboard lock function

4.1 Keyboard Description

Key position	Key Function Description
0-9：	numeral key
Enter	Enter key
I-Set	Set the maximum output current/OCP setting of the power supply
V-Set	Set power output voltage/OVP settings
Save	Store the current relevant parameters of the power supply to the specified storage location
Recall	Retrieve power related setting parameters from the specified storage location
Esc	Exit key/keyboard lock
On/off	Power output status control key
knob	Used to change the settings of power supply voltage and current, as well as menu parameter settings (long press the knob to enter menu settings).

4.2 Introduction to Front Panel Operation

Before using this power supply, please understand the following basic introduction about the operation of the front panel buttons.

● After the power is turned on, the power automatically switches to panel operation mode. In panel operation mode, all buttons can be used.

● LED can display the current operating status of the power supply. When the power is turned on, the LED displays three lines of data, the first line displays voltage value, the second line displays current value, and the third line displays power value. When the instrument is in the output state, the voltage, current, and power windows are displayed as the actual output values. When the instrument is in the closed state, the voltage and current windows are displayed as the set values, and the power is 0.000W.

4.3 Voltage Setting Operation

The voltage setting range is between 0V and the maximum voltage setting value. You can use the following two methods to set the output voltage value through the front panel.

Method 1: Press the V-Set key+0 to 9 numeric keys, and then press the Enter key to set the voltage value.

Method 2: Change the voltage setting value by pressing the knob and then turning it left and right. (Press the knob inward and the screen will flash to rotate the setting voltage left and right. Press the knob to move the setting cursor position, press the "Enter" key to confirm and exit the setting mode.).

4.4 Current setting operation

The setting range of the constant current is between 0A and the full rated output current

Method 1: Press the I-Set key+0 to 9 numerical keys, and then press the Enter key to set the current value.

Method 2: Press the I-Set key and rotate the knob left and right to change the voltage setting value. (Press the knob inward and the screen will flash to rotate the set current left and right. Press the knob to move the set cursor position, press the "Enter" key to confirm and exit the setting mode.).

4.5 Storage/Call Operations

The power supply can store some commonly used parameters in 9 sets of nonvolatile memory for users to quickly access and use. You can use the Save and Recall buttons on the front panel to access (0-9) groups of storage areas.

The storage content includes: 1. Voltage setting value 2. Current setting value 3. OVP, 4. OCP

The specific operation is as follows:

4.5.1 Storage Operations

Press the "Save" button, and the screen will switch to the storage operation interface (as shown in the following figure). At this time, you can enter the "0" to "9" numeric keys, and press the Enter key to store the parameters of the power supply in the designated storage area.

4.5.2 Call Operation

Press the "Recall" button, and the screen will switch to the call operation interface (as shown in the following figure). At this time, you can enter the "0" to "9" numeric keys, and press the Enter key to call out the parameters of the power supply from the specified storage area.

4.6 Menu operation

Long press the knob to enter "Menu", and the screen will switch to the menu operation interface. At this time, the screen will flash. On the menu operation interface, the menu can be scrolled up and down by turning the knob left and right. Press the knob or press the "Enter" key to select the menu to be modified or confirm the parameters to be modified, and the "Esc" key will return to the previous menu level.

4.6.1 Configuration:

Long press the knob to enter "Menu", and the current window will display "CONF" (power configuration) and flash (as shown in the figure below). By turning the knob left and right, the menu can be scrolled up and down. When pressing the knob or pressing "Enter" at the position where "CONF" (power configuration) is located, the power will enter the power configuration function option, and the "Esc" key will return.

4.6.1.1 Power Set:

At the location of the "Config" menu, press the knob or press "Enter" to enter the Power Set function option. The display is as follows (voltage window menu flashes). At this time, you can scroll up and down the menu by turning the knob left and right. Press the knob or press the "Enter" key to select the menu that needs to be modified. When pressing the knob in the "P-ST" position, the current window parameters flash, Enter the Power Set function parameter settings, turn the knob left and right to modify the parameters. "ON" means to maintain the voltage and current parameters from the previous shutdown when powered on, "OFF" means to maintain the factory default voltage and current parameters when powered on. Press the knob or "Enter" key to confirm, and "Esc" key to return.

4.6.1.2 Power UP:

Under the "Config" menu, you can scroll the menu up and down to the "P-UP" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to select and modify the "P-UP" menu. At this time, the current window parameters flash, and enter the Power UP (power on output status setting) function parameter setting. Rotate the knob left and right to modify the parameters, and "ON" remains in the output state when powered on, "OFF" means to keep the output

closed when powered on, press the knob or "Enter" key to confirm, and "Esc" key to return.

4.6.1.3 Beep (buzzer sound setting):

Under the "Config" menu, you can scroll the menu up and down to the "BEEP" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "BEEP" menu. At this time, the current window parameters flash and enter the BEEP (buzzer sound setting) function parameter setting. Rotate the knob left and right to modify the parameters. "ON" is to turn on the buzzer, "OFF" is to turn off the buzzer, and press the knob or "Enter" key to confirm, The 'Esc' key returns.

4.6.1.4 Brightness:

Under the "Config" menu, you can scroll up and down the menu to the "Brig" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "Brig" menu. At this time, the current window parameters flash and enter the Brig (brightness setting) function parameter setting. Rotate the knob left and right to modify the parameters.

"1" is the darkest, "6" is the brightest. Press the knob or "Enter" key to confirm, and "Esc" key returns.

4.6.1.5 Curr (current display setting):

Under the "Config" menu, you can scroll the menu up and down to the "CURr" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to select and modify the "CURr" menu. At this time, the current window parameters flash and enter the CURr (current display setting) function parameter setting. Rotate the knob left and right to modify the parameters "5" or "4", where "5" represents the current display in 5 digits and "4" represents the current

display, Press the knob or "Enter" key to confirm, and "Esc" key to return.

4.6.1.6 VO-L (voltage range lower limit setting):

Under the "Config" menu, you can scroll the menu up and down to the "VO-L" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "VO-L" menu. At this time, the current window parameters flash and enter the VO-L (voltage range lower limit setting) function parameter setting. At this time, you can modify the parameters through the number keys "1-9", confirm the input parameters with "Enter", and return with

"Esc".

4.6.1.7 VO-H (Voltage Range Upper Limit Setting):

Under the "Config" menu, you can scroll the menu up and down to the "VO-H" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "VO-H" menu. At this time, the current window parameters flash and enter the VO-H (voltage range upper limit setting) function parameter setting. At this time, you can modify the parameters through the number keys "1-9", confirm the input parameters with "Enter", and return with "Esc".

4.6.1.8 CU-L (Current Range Lower Limit Setting):

Under the "Config" menu, you can scroll the menu up and down to the "CU-L" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob or press the "Enter" key to select and modify the "CU-L" menu. At this time, the current window parameters flash and enter the CU-L (lower limit of current range setting) function parameter setting. At this time, you can modify the parameters through the number keys "1-9", and confirm the input parameters with "Enter", The 'Esc' key returns to the previous level.

4.6.1.9 CU-H (Current Range Upper Limit Setting):

Under the "Config" menu, you can scroll up and down the menu to the "CU-H" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "CU-H" menu. At this time, the current window parameters flash and enter the CU-H (current range upper limit setting) function parameter setting. At this time, you can modify the parameters through the number keys "1-9", confirm the input parameters with "Enter", and return with "Esc".

4.6.1.10 Addr (communication address setting):

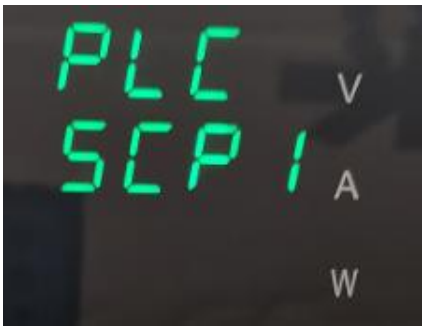
Under the "Config" menu, you can scroll the menu up and down to the "Addr" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "Addr" menu. At this time, the current window parameters flash and enter the Addr (communication address setting) function parameter setting. At this time, you can modify the parameters by turning the knob left and right. The address is set between 1 and 254, and press the knob or the "Enter" key to confirm, The 'Esc' key returns.

4.6.1.11 Baud (Baud rate setting):

Under the "Config" menu, you can scroll the menu up and down to the "Baud" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "Baud" menu. At this time, the current window parameters flash and enter the Baud (Baud rate setting) function parameter setting. At this time, you can modify the parameters by turning the knob left and right. The baud rate is 4800960019200384005760011520O, Press the knob or "Enter" key to confirm, and "Esc" key to return.

4.6.1.12 PLC (Communication Protocol Settings):

Under the "Config" menu, the menu can be scrolled up and down to the "PLC" position by turning the knob left and right. The display is as follows (voltage window menu flashes). Press the knob to select the "PLC" menu to modify, and the current window parameters will flash to enter the PLC (communication protocol setting) function parameter setting. At this time, the parameters can be modified by turning the knob left and right. There are two communication protocols: SCPI and Modbus. Press the knob or the "Enter" key to confirm, The 'Esc' key returns.



4.6.1.13 CEND (Communication End Character Setting):

Under the "Config" menu, you can scroll the menu up and down to the "CEND" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "CEND" menu. At this time, the current window parameters flash and enter the CEND (communication end character setting) function parameter setting. At this time, the parameters can be modified by turning the knob left and right. The communication end symbols are CR, LF, CRLF, LFCR. Press the knob or the "Enter" key to confirm, The 'Esc' key returns.

4.6.1.14 Initialize:

Initialize:
Under the "Config" menu, you can scroll the menu up and down to the "INIT" position by turning the knob left and right. The display is as follows (the voltage window menu flashes). Press the knob to choose to modify the "INIT" menu. At this time, the current window parameters flash and enter the INIT (power initialization) function parameter settings. At this time, you can modify the parameters by turning the knob left and right. "NO" is not initialized, "YES" is initialized, and press the knob or "Enter" key to confirm, The 'Esc' key returns.

4.6.2 List (List Test Function):

When the "Menu" key is pressed, the current window displays "CONF" (power configuration) and flashes. The menu can be scrolled up and down by turning the knob left and right. When the "List" (list testing function) is selected, press the knob or press "Enter" to enter the list testing function option. The display is as follows, and the "Esc" key returns to the previous level.

4.6.2.1. Load List File

After entering the list testing function option (as shown in the figure below), press the knob or press "Enter" to automatically load the edited List file and switch to the List testing interface. Press the "Output" key to execute or stop the List, and the "Esc" key to return to the previous level

4.6.2.2. Editing List Files

After entering the list test function option of the power supply, scroll up and down the menu by turning the knob left and right. When "Edit" is selected (the edit list test function, as shown in the following figure).

4.6.2.3. List Total Step Size Setting

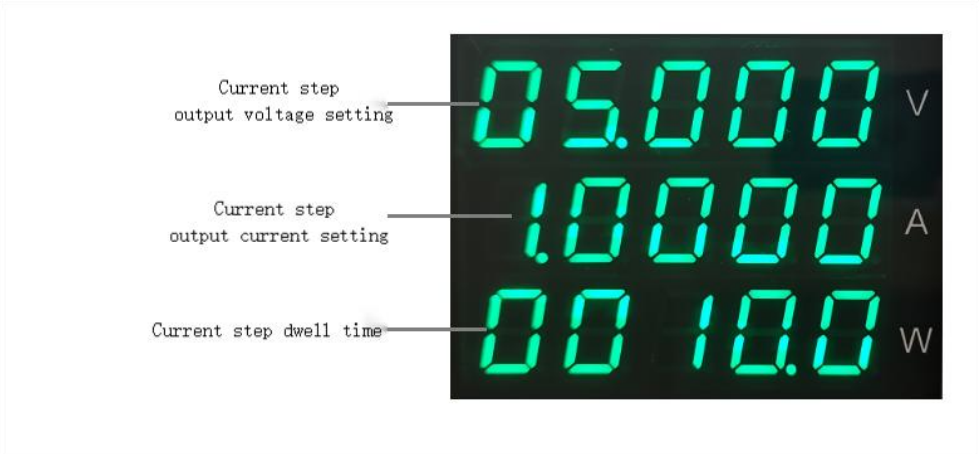
After entering the edit list testing function, press the knob or press "Enter" to enter the list total step size setting and editing. The display is as follows: "Esc" key returns to the previous level, input parameters with the number keys, press "Enter" key to confirm, and select a total step size between 1-10.

4.6.2.4. List Continuous Cycle Count Setting

After the editing of the List total step size setting is completed, it will automatically enter the List continuous cycle number setting. Use the number keys to input parameters, press the "Enter" key to confirm, and select the total number between 0 and 9999. 0 is an infinite cycle. During the execution of the List, you can press "Output" to stop or continue, and "Esc" key to return to the previous level.

4.6.2.5. List Output Parameter Settings

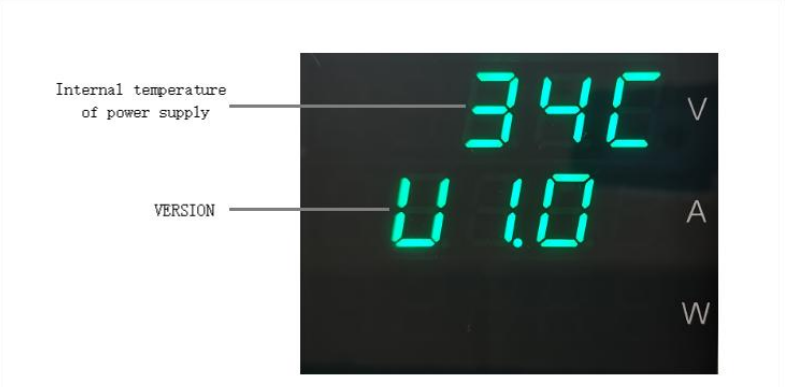
After completing the editing of the List's continuous cycle count settings, it will automatically enter the settings of voltage, current, and time (in seconds, up to 9999) for each step of the List (as shown in the following figure). The values of the setting items will flash. Use the number keys to enter the parameters, press the "Enter" key to confirm, and skip to the next item. After the editing is completed, the power will return to the list testing function options homepage.



4.6.3 Information:

4.6.3.1 When pressing the "Menu" button, the current window displays "CONF" (power configuration) and flashes. Use the knob to scroll up and down to the position of "INFO" (power information menu), as shown in the following figure:

4.6.3.2 Press the knob or press "Enter" at the position where the "INFO" (power information menu) is located, and the power will enter the power information menu, as shown below:



4.7 Output on/off operation

When the power is turned on and the "On/Off" button is pressed, the "Output" light turns on and the power output is turned on. When the "On/Off" button is pressed again, the "Output" light turns off and the power output is turned off, as shown below:

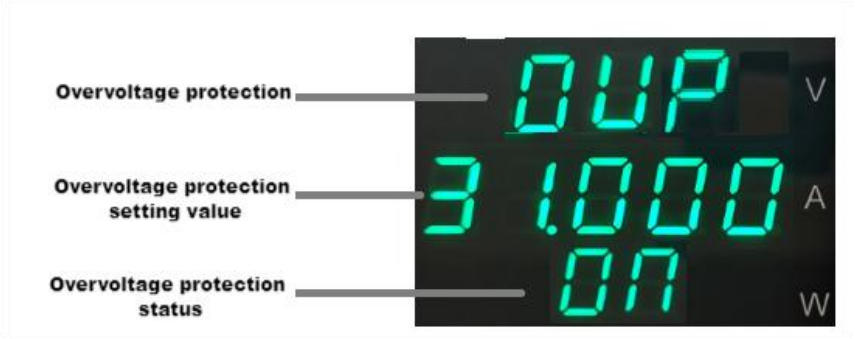
4.8 Overvoltage/overcurrent protection function

4.8.1 Overvoltage protection function

Long press the "V-set" key to enter the OVP setting, which is displayed as follows. You can switch between the set value and state using the "Enter" key, exit with "Esc", and save or call the modified parameters through "Save and Recall".

Parameter setting: The protection value can be changed through numeric keys and knobs, using the same method as the voltage setting;

Status setting: The protection status can be modified by turning the knob left and right. "ON" means the protection function is turned on, and "Off" means the protection function is turned off.

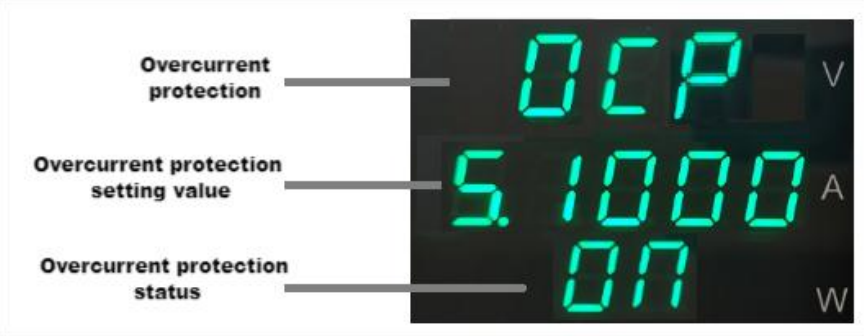


4.8.2 Overcurrent protection function

Long press the "I-set" key to enter the OCP settings, which are displayed as follows. You can switch between the set value and status using the "Enter" key, exit with "Esc", and save or call the modified parameters through "Save" and "Recall".

Parameter setting: The protection value can be changed through numerical keys and knobs, and the method is consistent with the current setting;

Status setting: The protection status can be modified by turning the knob left and right. "ON" means the protection function is turned on, and "Off" means the protection function is turned off.



4.9 Keyboard lock function

When the power is turned on, long pressing the "On/Off" button on the front panel will lock it. At this time, only the "On/Off" button is valid. To unlock it, long pressing the "On/Off" button again will unlock it.

4.10 Appendix

When you select a device with a communication port as the network port, a network port setting menu has been added after the "Addr" option in the "Power Configuration" menu, as follows:

4.10.1 "IP-1" is the IP address setting menu, which is displayed on the screen as shown in the figure below. Lightly press the knob to enter the IP address setting function options, use the number keys to set parameters, press the "Esc" key to return to the previous menu, and "lightly press the knob" to save the settings and return to the previous menu.

4.10.2 "IP-2" is the function menu of the subnet mask. The screen displays as shown in the figure below. Lightly press the knob to enter the setting function options of the subnet mask. Use the number keys to set parameters, press the "Esc" key to return to the previous menu, and "lightly press the knob" to save the settings and return to the previous menu.

4.10.3 "IP-3" is the function menu of the gateway, which is displayed on the screen as shown in the figure below. Lightly press the knob to enter the gateway's setting function options, use the number keys to set parameters, press the "Esc" key to return to the previous menu, and "lightly press the knob" to save the settings and return to the previous menu.

4.10.4 "IP-4" is the function menu of the network port, as shown in the following figure. Lightly press the knob to enter the setting function options of the network port. Use the number keys to set parameters, press the "Esc" key to return to the previous menu, and "lightly press the knob" to save the settings and return to the previous menu.

Security

Do not install replacement parts on the instrument or make any unauthorized modifications. Please send the instrument to our company's maintenance department for maintenance to ensure its safe use.
Please refer to the specific warning or caution information in this manual to avoid personal injury or instrument damage.

Safety sign

Warning

It reminds users of certain operating procedures, practices, conditions, and other matters that may lead to personal injury.

Caution

It warns the user of procedures, practices, conditions, etc. that may cause damage to the instrument or permanent loss of data.

 Grounding point today

 High voltage hazard. (Do not open the machine for non-expert personnel)

 Refer to the warnings in the related documents and pay attention to the tips. (High voltage, please wear gloves when operating, and do not use the machine for safety purposes).

— Since 2003

Warranty Card

What the warranty covered:

If the machine break down due to its defectiveness, MATRIX will provide free maintenance during warranty period. If the machine break down due to wrong operation or carelessness, then Matrix provide paid service within warranty period.

How long does this warranty last:

This warranty lasts for 3 years from the date of original purchase of all MATRIX branded products.

Who is covered:

This warranty covers only the original purchaser of this product. This warranty is not transferable to subsequent owners or purchasers of this product.

What do customers need to do to get repairs/service under the warranty policy?

If the machine get problem, please contact our local distributor. If you cannot find the local distributor, you can contact us directly, our email is service@szmatrix.com, our telephone No. is 0086 755 2836 4276.

What information do customers need to supply?

Model No.	
Serial No.	
Problem description	
Picture	
Video if necessary	