DC Power supply(Mini F)

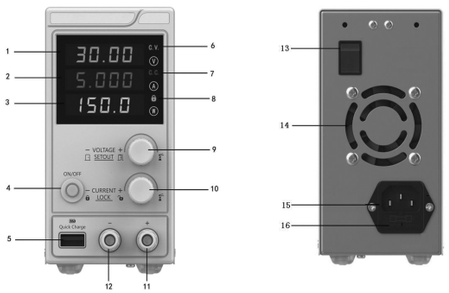
一、Brief introduction

Mini Regulated DC Power Supply is a kind of reliable quality, highly stable and economical power supply. Featuring OVP, OCP, LED display of four-digit voltage and current, and extremely high stability and strong reliability, it is ideal for manufacturing, colleges and universities as well as home appliance repair units.

二、Product description

Specification	15V/2A	15V/5A	30V/5A	60V/5A	30V/10A	100V/3A
Output Voltage Range(0-Vmax)	0-15V	0-15V	0-32V	0-64V	0-32V	0-102V
Output Current Range(0-Cmax)	0-2A	0-5A	0-5A	0-5A	0-10A	0-3A

三、Panel Features (Mini F)



(1) Voltage value display meter
(2) Current value display meter
(3) Power value display meter
(4) Switch button for Output
(5) ////////////////////////////////////
(6) CV stable voltage indicator, which is on under stable voltage working status
(7) CC stable current indicator, which is on under stable current working status
(8) Key lock indicator. Long press of the current value knob to unlock / lock the button, with the indicator lights up to lock. Only the OUTPUT button works when the button is locked.
(9) Voltage setout knob for output stable voltage value : Press the knob to enter the setting mode. As the digits flash, rotate the knob clockwise to increase the output voltage, and counterclockwise to decrease the output voltage. Pressing the knob will change the digit bit of flashing digits. Long press of the knob to store the state of switch on/off , which will take effect at the next boot.
(10) Current lock for output stable current value: Press the knob to enter the setting mode. As the digits flash, rotate the knob clockwise to increase the output current, and counterclockwise to decrease the output current. Long press of the knob will change the digit bit of flashing digits. Press and hold the knob to unlock / lock the keys.
(11) Output terminal positive (red)
(12) Output terminal negative (black)
(13) Power switch
(14)Cooling fan
(15) Input socket for supply voltage
(16) Fuse holder

三、Specification

1. Rated Operating Conditions

Working voltage: check the body label

Working conditions: temperature 0 ～ 40 ℃, relative humidity: ≤80% RH
Storage conditions: temperature -20 ～ 60 ℃ relative humidity: ≤80% RH
The whole temperature range to ensure accuracy: 23 ℃ ± 5 ℃

2. Specification

Voltage	
Load Regulation	≤0.1%+5mV
Power Regulation	≤0.01%+5mV
Set Resolution	10mV
Set Accuracy	≤0.1%±1 digits
Readback Resolution	10mV
Readback Accuracy	≤0.1%±1 digits
Ripple	10mVrms
Current	
Load Regulation	≤0.2%+3mA
Power Regulation	≤0.2%+3mA
Set Resolution	1mA
Set Accuracy	≤0.2%±3mA
Readback Resolution	1mA
Readback Accuracy	≤0.2%±3digits
Ripple	8mVrms
OVP	Vmax+2V
Maximum Voltage	Vmax±0.2%
OCP	Cmax+1A
Maximum Current	Cmax±0.2%
Working Conditions	Temperature 0 ～ 40 ℃ Relative humidity: ≤80% RH
Storage Conditions	Temperature -20 ～ 60 ℃ Relative humidity: ≤80% RH
Cooling Method	Fan cooling
Weight	1.95KG
Size (bare)	230*80*150（MM）

四、Instructions for use and protective measures

1.Keep the switch off. Connect the power cable of the power supply. Ensure the L end of the power cable plug connected to the live wire of the power socket and the grounding wire connected to the ground.

2.The power supply must be grounded when in use.

3.Please attach importance to good ventilation when in use. Keep a 10cm gap with other articles from four sides of the power supply. Do not expose the power supply to dusty, corrosive gas and other harmful substances.

4.Specification of the power supply should be measured after 15 minutes of its"warming-up".

5.Ensure the transfer switch for voltage input consistent with the mains electricity prior to power connection, otherwise this will lead to serious failure.

五、Packing List

1. 1 * Mini Regulated DC Power Supply
2. 1 * Power Cable
3. 1 * User's Manual
4. 1 * Testing Line

六、 Maintenance

1.With normal power supply voltage, the failure of digital display after the power is on may due to the burning out of the fuse or other faults. Then replace the fuse or ask for professional's help after disconnecting the power switch and unplugging the power cable.

2. When the stable voltage source is used, the power supply will automatically switch to the stable current working state as the output voltage is less than the desired value with the CC light on for current protection. The load should be checked or the maximum current should be increased in this situation (to adjust CURRENT clockwise).

3.When the stable current source is used, the power supply will automatically switch to the stable voltage working state as the output current is less than the desired value with the CV light on for voltage protection. The load should be checked or the maximum voltage should be increased in this situation (to adjust VOLTAGE clockwise).

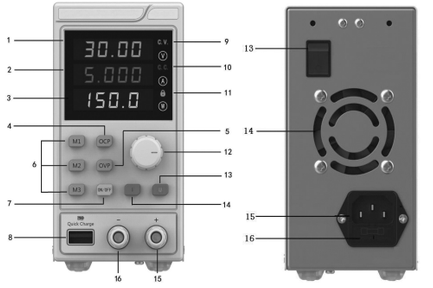
4.Please contact your dealer or our company if the fault is serious and cannot be resolved.

DC Power supply(Mini P)

一、Product description

Specification	30V/5A	60V/5A	30V/10A	100V/3A
Output Voltage	0-32V	0-64V	0-32V	0-102V
Output Current	0-5A	0-5A	0-10A	0-3A

二、Panel Features (Mini P)



1. Voltage value display meter
2. Current value display meter
3. Power value display meter
4. OCP setting button
5. OVP setting button
6. M1-M2-M3 button: Save value / Read value button
7. On/ Off button: Output turn on/ turn off button
8. ////////////////////////////////////
9. CV (Constant Voltage) Mode indicator. The indicator is on when operating in constant voltage mode
10. CC (Constant Current) Mode indicator. The indicator is on when operating in constant current mode
11. Locked state Indicator. Long press the Knob to unlock/lock the buttons. The Locked state Indicator will be on if the product is in the locked state. Only output turn on/ turn off button works in the locked state.
12. Knob
13. Voltage setting button: Press the button and set the voltage value. Digits flashes once set successfully.
14. Current setting button: Press the button and set the current value. Digits flashes once set successfully.
15. Positive output terminal (RED +)
16. Negative output terminal (BLACK -)
17. Power on/ off
18. Cooling fan
19. Input socket for supply voltage
20. Fuse holder

三、Specification

VOLTAGE	
Load Regulation	≤0.1%+5mV
Line Regulation	≤0.01%+5mV
Setting Resolution	10mV
Setting Accuracy	≤0.1%±1 digits
Readback Resolution	10mV
Readback Accuracy	≤0.1%±1 digits
Ripple and Noise	10mV rms
CURRENT	
Load Regulation	≤0.2%+3mA
Line Regulation	≤0.2%+3mA
Setting Resolution	1mA
Setting Accuracy	≤0.2%±3mA
Readback Resolution	1mA
Readback Accuracy	≤0.2%±3digits
Ripple and Noise	8mV rms
GENERAL	
OVP	0-Vmax±0.2%FS
Max. output voltage	V max±0.2%
OCP	0-Cmax±0.2%FS
Max. output current	C max±0.2%
Operating Range	0℃ to 40℃, ≤80% RH
Suggested Operating Range	23 ℃ ± 5 ℃
Storage Range	-20℃ to 60℃, ≤80% RH
Weight	1.95KG±0.05KG
Size	230*80*150 mm

四、Frequently Question

Q1. How to operate the function "set up the OCP" ？

1) Press the OCP setting button to enable function. Once the function enables, the button will turn red.

2) Rotate the Knob to set the OCP value.

3) Once the output current is higher than the setting value, the screen will show "OCP".

4) Press the On/ Off button to reset.

5) Press the OCP setting button to disable the function. Once the function disables, the button will no longer appear in red.

Q2. How to operate the function "set up the OVP"?

1) Press the OVP setting button to enable function. Once the function enables, the button will turn red.

2) Rotate the Knob to set the OVP value.

3) Once the output voltage is higher than the setting value, the screen will show "OVP".

4) Press the On/ Off button to reset.

5) Press the OVP setting button to disable the function. Once the function disables, the button will no longer appear in red.

Q3. How to Save value / Read value?

1) Rotate the Knob to set the value you want to save.

2) Long press the "M1" button until the indicator is on, which means the value saved in the "M1" button successfully.

3) Press the "M1" button to light the button. The saved value will be read when the indicator is on. (M1/ M2/ M3 button works essentially the same way).

Q4. How to adjust the current or voltage?

1) Rotate the knob to adjust and current or voltage.

2) Press the knob to confirm the digit.

Q5. How to set unlock/lock the buttons?

Long press the knob to unlock/lock the buttons. The Locked state Indicator will be on if the product is in the locked state.

Only output turn on/ turn off button works in the locked state.

Lock the buttons before starting work to make sure the power value accuracy.

Q6. Why the digital display doesn't work properly?

1) Check the input voltage to determine that it is functioning correctly.

2) If the power is delivered into the product at a nominal voltage, the fuse maybe has burned out in case of a short circuit or other trouble.

Turn the DC power supply off, remove the plug wires from the plugs as well as the DC power supply, and fit a new fuse.

3) We do suggest that you should ask for professional assistance and not fix it by yourself.

Q7. Why does the C.C indictor lights?

1) When operating in constant voltage mode, the too lower output voltage will arouse current protection, which causes the C.C indicator light.

2) Then the DC power supply switches to the constant current mode automatically to protect the product.

3）Check and increase the max current according to user needs. (Press "I" button and rotate the knob to adjust the current).

Q8. Why does the C.V indicator lights

1) When operating in constant current mode, the too lower output current will arouse voltage protection, which causes the C.V indicator light.

2) Then the DC power supply switches to the constant voltage mode automatically to protect the product.

3）Check and increase the max voltage according to user needs. (Press "U" button and rotate the knob to adjust the voltage).

五、Note

1. Connect the wire to the DC power supply in the fully off states.
2. Double-check and make sure the wire achieves a good connection before using the product. Make sure the ground wire is also connected to earth ground.
3. Make sure the product is connected to earth ground.
4. Using the product in the ventilated environment. The product should be stored and operated at least 10 cm (7.87 inches) from the other objects.
5. Avoid dust, moisture, corrosive gas, and harmful substances.
6. Measure its accuracy after a 15-minute warm-up.
7. Make sure the voltage meets the request of the local country.
8. Please contact the seller or our company if there is a serious problem that cannot be resolved.