

VARIABLE DC POWER SUPPLY
REGULATED DUAL-LINE OUTPUT

Statement: The company reserves the right to improve & upgrade products, product specifications and design are subject to change without notice.

OPERATION
INSTRUCTION

English

Made in China

Thank you for purchasing this product. Please read the manual carefully before operating and keep this manual for future reference.

● This product should not be thrown in the garbage. In accordance with the European directive 2012/19/EU, electronic equipment at the end of their life must be collected & returned to an authorized recycling facility. ● Este producto no debe desecharse en la basura. De acuerdo a la directiva europea 2012/19/EU, los equipos electrónicos al final de su vida se deberán recoger y trasladar a una planta de reciclaje autorizada. ● Dieses Produkt sollte nicht mit dem Hausmüll entsorgt werden. In Übereinstimmung mit der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer eingesammelt und einem autorisierten Recyclingbetrieb zugeführt werden.

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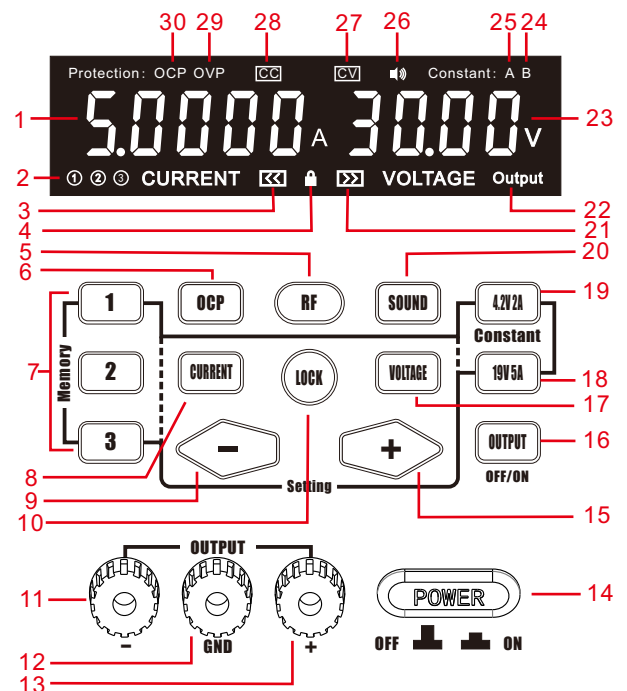
SPECIFICATIONS

Main Unit Dimensions	L268xW125xH155mm ±5mm
Operating Ambient Temperature	-10°C~40°C /14°F~104°F
Relative Humidity	<90%
Output Range (Voltage)	0~30V
Voltage Output Precision	±0.02V
Line Regulation	≤0.01%+3mV
Load Regulation	≤0.01%+3mV
Ripple & Noise	<0.1% Vrms
Temperature Coefficient	≤300PPM/°C
Output Range (Current)	0~5A
Line Regulation	≤0.1%+3mA
Load Regulation	≤0.1%+3mA
Output Current Accuracy	0.0001~0.0450A ±0.0001A
	0.045~0.45A ±0.001A
	0.45~5A ±0.01A

I. APPLICATIONS & FEATURES

Designed specifically for scientific research, product development, lab testing, higher education practical applications, laptop repair, and electronic assembly line. This unit comes with continuously adjustable voltage and current within the rated range, and the output is highly accurate and reliable. The unit comes with a full set of overload protection circuit to protect your circuit board at work, making it an ideal choice for the industry.

II. CONTROL PANEL GUIDE



1. Current Display
2. Preset Channel Indicator (3 Channels Available)
3. Current Setting Indicator
4. Function Setting Indicator
5. ON/OFF Button (RF Signal Metering)
6. Current Protection Mode Selector (Over-current Cut-Off or Constant Current Output)
7. Data Storage Button (for the 3 preset channels)
8. Current Setting Button
9. Data DOWN Button
10. Function Lock Button
11. Output Terminal (Negative -)
12. Terminal (Ground GND)
13. Output Terminal (Positive +)
14. Power Switch
15. Data UP Button

16. Output ON/OFF Button
17. Voltage Setting Button
18. Constant Output Button (19V 5A)
19. Constant Output Button (4.2V 2A)
20. Buzzer ON/OFF Button
21. Voltage Setting Indicator
22. Output Indicator
23. Voltage Display
24. Constant Output Indicator (19V 5A)
25. Constant Output Indicator (4.2V 2A)
26. Buzzer ON/OFF Indicator
27. C.V. Mode Indicator (Constant Voltage)
28. C.C. Mode Indicator (Constant Current)
29. Over-Voltage Protection Indicator
30. Current Protection Mode Indicator

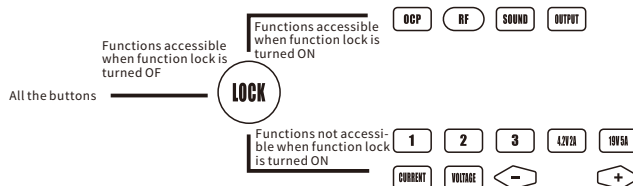
5. Constant Output & Preset Channels

Press any of the buttons below to set the power supply in the settings specified in the preset channels or constant output channels.



6. Function Lock

Users can use this function under different operation conditions to ensure a safe, reliable, and consistent work result.



III. OPERATION

1. Connect the power supply's power cord to an electrical outlet.
2. Turn ON the power switch. (When turning it ON, the power supply will display the current and voltage setting from the previous use)

3. Basic Operations

The settings can only be changed when the setting lock is turned OFF. (with Function Lock Indicator OFF)

- 3-1. Press the voltage or current setting button
- 3-2. Press the UP or DOWN button to set the value based on your need, then, press the voltage/current setting button to confirm entry
- 3-3. Select the over-current protection mode
- 3-4. Connect the power supply's leads to the load
- 3-5. Press the OUTPUT button to begin operation



4. Data Storage

- 4-1. Press the voltage or current setting button
- 4-2. Press the UP or DOWN button to set the desired value, then, press the voltage/current setting button to confirm entry.
- 4-3. Press and hold any one of the 3 preset channel's buttons until the respective number (located at the button-left side of the display) on the display blinks. (Or, when the buzzer is turned on, you can hear a prolonged beep to prompt you that the data is stored successfully)



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he change from C.C. (Constant Current) mode to C.V. (Constant Voltage mode) occurs as the load decreases.

IV. MAINTENANCE & PRECAUTIONS

1. When charging the battery, DO NOT connect the positive and negative poles incorrectly.
2. This unit is designed to operate normally without the need of a cooling fan. The specified maximum operation duration under full capacity is at least 4 hours. If a longer duration of use is required, keep the usage rate within 80%. Failure to do so may result in the premature failure of the power supply. Set aside additional current capacity when ordering this unit.

7. Memory Function (Previous Output Setting)

When the power supply is turned OFF, press and hold the output ON/OFF button, then turn ON the power supply. The display will show "OFF" or "ON". Press the data UP button to turn ON the memory function, and the display will show "ON". Or, press the data DOWN button to turn OFF the memory function, and the display will show "OFF".

8. When the output voltage exceeds 36V, the over voltage indicator will blink with "OVP", along with buzzer alarms (When the buzzer is not OFF) to prompt the status. ONLY turn ON the power supply again once the problem has been diagnosed and solved.

9. Current Protection Modes (Over-current Cut-Off or Constant Current Output)

There are two modes available when outputting power. Press the OCP button, and the OCP indicator turns ON, this indicates that the power supply is in the Over-current Cut-Off Mode. In this mode, the power supply cuts off the voltage supply when the output current exceeds the set value. If the OCP indicator is OFF, this means that the power supply is in Constant Current output mode. In this mode, the power supply will put out constant current as per the set current value.

10. Characteristics of Constant Voltage / Constant Current

This power supply's key function is referred to as "automatic C.V. and C.C. switching". This power supply can switch between C.V. mode and C.C. mode automatically based on the load change connected to the power supply. We refer to the change between modes as the point of change.

How it works: If the load puts the DC power supply in C.V. (Constant Voltage) Mode, then the power supply will output stabilized voltage (with the CV indicator ON). As the load increases, the output voltage will remain stabilized until it reaches the preset current. At this point, the output current will remain stabilized (with the CC indicator ON). As the load increases, the output voltage will decrease in ratio to the load increase. It