

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

Linear DC Power Supply Variable & Voltage Regulated

OPERATION INSTRUCTION

English
3005D V / 3010D V



● 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.
● Dieses Produkt darf nicht in den Müll geworfen werden. Gemäß der europäischen Richtlinie 2012/19/EU müssen elektronische Geräte am Ende ihrer Lebensdauer gesammelt und an eine autorisierte Recyclinganlage zurückgegeben werden.
● Ce produit ne doit pas être jeté à la poubelle. Conformément à la directive européenne 2012/19/UE, les équipements électroniques en fin de vie doivent être collectés et renvoyés à une installation de recyclage autorisée.
● Questo prodotto non deve essere gettato nella spazzatura. In conformità alla direttiva europea 2012/19/UE, gli apparecchi elettronici giunti a fine vita devono essere raccolti e restituiti a un impianto di riciclaggio autorizzato.
● Este producto no debe ser arrojado a la basura. De acuerdo con la directiva europea 2012/19/UE, los equipos electrónicos al final de su vida útil deben ser recolectados y devueltos a una instalación de reciclaje autorizada.

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

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IMPORTANT SAFETY GUIDELINES

Strictly follow the basic safety guidelines and precautions when using the product. The guidelines include:

CAUTION!!! WARNING!!!

Read the operating manual thoroughly before use.

1. To prevent the danger of electric shocks, the product MUST be connected to the electrical outlet correctly.
2. DO NOT immerse the product in water.
3. Beware the danger of electric shock. To prevent electric shock, DISCONNECT the power plug when the product is not in use.
4. This product is meant for indoor and home use ONLY.
5. To prevent electric shock, DISCONNECT the power plug when replacing the fuse or conducting other repairs.
6. Fuses of the same type and rated specification MUST be used for replacement.
7. This product is not meant for users that are inexperienced (including children), have physical, sensory, or mental disabilities unless these users are guided and monitored by their responsible guardians. Take good care of the children and DO NOT allow children to play with this product.
8. Manage the children, and ensure that they DO NOT play with this product.
9. To prevent the risk of danger, ONLY the manufacturer, manufacturer-appointed service provider, or certified professionals are allowed to replace the power cord if the power cord is damaged.
10. ANY reparation services shall ONLY be conducted by the manufacturer-appointed service provider. This product does not include spare parts for users to conduct self-reparations.
11. To reduce the risk of fire hazard or electric shock, keep the product indoor and DO NOT expose this product in the rain or humid environments. Read the instruction manual before use.
12. To ensure your safety, TURN OFF the power switch when the operation is complete. DISCONNECT the power cord if the product is not in use for an extended period.
13. The product includes a detachable short power cord to reduce the risk of cable tangling or tripping.
14. A longer detachable power cord is available, use the power cord with utmost caution.
15. When using the long detachable power cord:
 - 1) The electrical ratings on the detachable power cord or extension cord MUST BE identical to the electrical ratings of this product.
 - 2) The extension cord should be a grounding three-prong power cord.
 - 3) Organize the longer power cord well. Ensure the power cord is on the surface of the table or work desk to avoid tripping, obstructing, or accidental pulling (especially for children).
16. Reserve sufficient space around the power supply to allow heat dissipation and cooling.
17. DO NOT use the product in environments where the ambient temperature is over 40°C.

Specification

Model number	3005D V	3010D V
Rated voltage range	220V-240V~	220V-240V~
Rated Frequency	50Hz	50Hz
Rated power	270W	520W
Main unit dimensions	L196×W250×H117mm ±10mm	L258×W250×H117mm ±10mm
Operating ambient Temperature	-10°C-40°C/14°F-104°F	-10°C-40°C/14°F-104°F
Relative humidity	<90%	<90%
Output voltage	DC 0-30V	DC 0-30V
Output power	150W	300W
Accuracy (Voltage)	<0.1%/±0.03V	<0.1%/±0.03V
Accuracy (Current)	<0.3%/±3mA	<0.5%/±3mA
Load regulation	<0.6%/±10mV	<1%/±10mV
Ripple	Vrms<0.5%/(10Hz-1MHz)	Vrms<0.5%/(10Hz-1MHz)
Output current	0-5A	0-10A

SAVE THESE INSTRUCTIONS

I. Applications & Features

This regulated DC power supply is developed specifically for scientific research, product development, test labs, , schools, electronic assembly lines, and electronic repairs.

1. The voltage regulation is highly stable with great load capacity and low ripple. This power supply comes with a complete set of functions including short circuit protection, overcurrent protection and over-heat protection functions.
2. This power supply uses a toroidal transformer, minimizing losses and reduced heat generation.
3. The product is equipped with ports with quick-access non-adjustable voltages of 5V, 8.4V, and 12V, as well as three pre-set channels to switch among multiple voltage settings quickly.
4. The product offers modes including constant current output, overcurrent auto-stop, and overcurrent auto-resumption mode. Users can choose the appropriate mode based on their applications.
5. The product comes with two 5V USB ports and 6 USB ports in parallel with the 30V output. Connect the load to the correct rating to prevent damaging the device.

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III. OPERATION

1. Connect the power supply's power cord to an electrical outlet.
2. Turn ON the power supply's master power button and set the desired voltage value.
3. Connect the load to the power supply based on the correct polarity. Press the output ON/OFF button once and the power supply will begin powering the load.
4. When the operation is complete, press the output on/off button to stop the output. DISCONNECT the load, and turn OFF the power supply. DISCONNECT the power cord when the power supply is not in use for an extended period.

5. Constant Current Output Mode, Overcurrent Protection Mode (Auto-Recovery and No-Recovery)

Constant Current Output Mode: When the output current has reached the set value, the power supply will output constant current. When the current has not reached the set value,

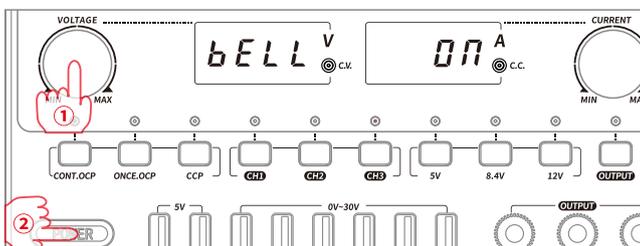
Overcurrent Auto-stop Mode: When the current has reached the set current, the power supply will stop the output.

Overcurrent Auto-resumption Mode: When the current has reached the set current, the power supply will stop outputting. Wait for a while and it will automatically resume outputting.

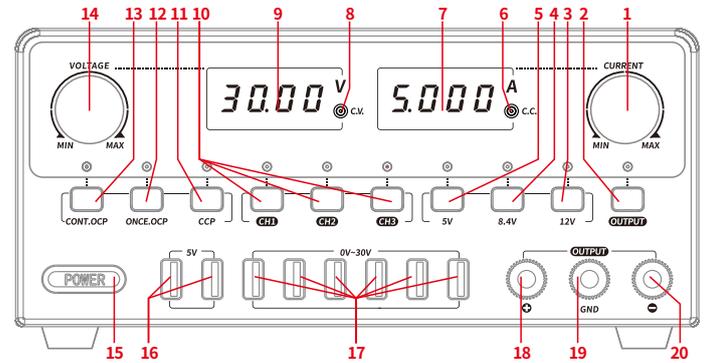
6. Buzzer Prompt

6.1 When the power supply is turned OFF, press and hold the voltage adjustment knob and then press the master power button.

6.2 Turn the voltage adjustment knob to turn ON/OFF the buzzer. Once done setting, press the voltage adjustment knob to exit the setting interface.



II. Reference: Panel



1. Current adjustment knob
2. Output ON/OFF Button
3. Output Button (12V Non-Adjustable)
4. Output Button (8.4V Non-Adjustable)
5. Output Button (5V Non-Adjustable)
6. Indicator (Constant Current Mode)
7. Current Display
8. Indicator (Constant Voltage Mode)
9. Voltage Display
10. Pre-set Channels
11. Constant Current Output Mode
12. Overcurrent Protection Mode (No-Recovery)
13. Overcurrent Protection Mode (Auto-Recovery)
14. Voltage adjustment knob
15. Master Power Button
16. USB Ports (5V)
17. USB Ports (0-30V)
18. Output Terminal (Positive +)
19. Grounding Terminal
20. Output Terminal (Negative -)

IV. Maintenance & Precautions

1. When charging batteries, DO NOT connect the positive and negative poles incorrectly.
2. It is not recommended for the power supply to output at full power (voltage and current set to maximum) for more than four hours. If more consecutive working hours are needed, please restrict the output usage rate within 60%. Otherwise, over-usage may result in premature failure of the power supply.