

DURATOOL



1CH 0-30V DC 5A REGULATED POWER SUPPLY

Model: D03234

and

1CH 0-60V DC 2A REGULATED POWER SUPPLY

Model: D03235

IMPORTANT SAFETY INFORMATION

Please read these instructions carefully before use and retain for future reference.

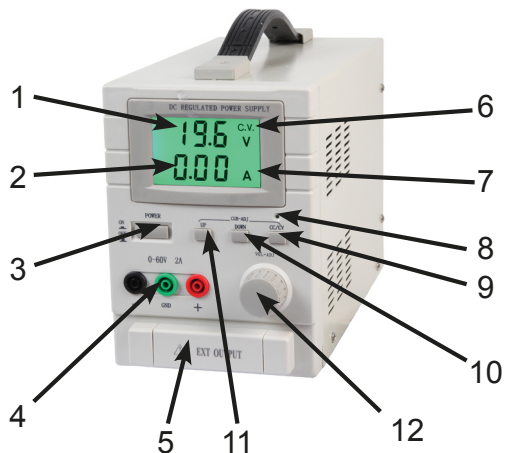
- Check that the voltage indicated on the rating plate corresponds with that of the local network before connecting the product to the mains power supply.
- When using electrical appliances basic safety precautions should always be followed.
- Please operate according to this manual, otherwise the protection provided by the device will be impaired or fail.
- There are no user-serviceable parts in this product. Refer servicing to qualified personnel.
- Do not operate this product with a damaged plug or cord, after a malfunction or after being dropped or damaged in any way.
- Check the product before use for any damage. Should you notice any damage on the cable or casing, do not use.
- This product must be earthed using the mains power cord ground connection. Children should be supervised to ensure that they do not play with the product.
- Always disconnect from the mains when the product is not in use or before cleaning.
- Do not use the product for any purpose other than that for which it is designed.
- Do not operate or store in an environment of high humidity or where moisture may enter the product as this can reduce insulation and lead to electric shock.
- Do not cover or in any way obstruct the cooling vents or the rear fan grille.

WHAT'S INCLUDED

- Power supply
- Power cord
- Operating manual
- One pair of connection cables
- One pair of shorting wires

FEATURES

1. Voltage indicator
2. Current indicator
3. Power switch
4. Output terminals
5. Extended output terminals
6. Constant voltage indicator
7. Constant current indicator
8. Current limit adjustment indicator
9. CV/CC selection switch
10. Current limiting down button
11. Current limiting up button
12. Output voltage control



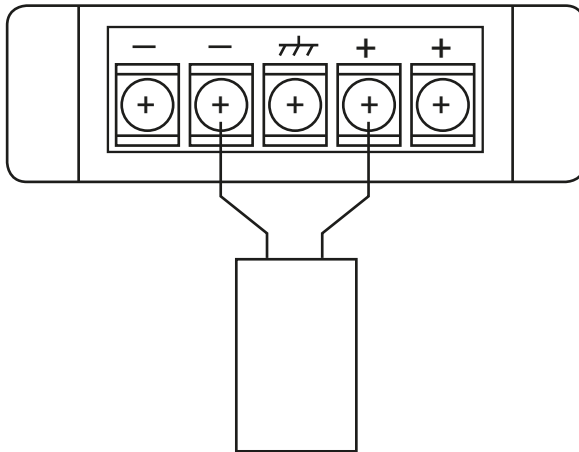
OPERATION

- Plug in the mains cord to the socket on the rear of the unit and connect to the mains supply and switch the power on.
- Adjust the rotary output control to the DC voltage output you require. The upper figure on the LCD will display the value.
- Connect the device you wish to power to the output terminals using the included connection leads observing the correct polarity.
- Ensure the load is within tolerance of the voltage value set.

Constant current adjustment method

- Adjust the voltage output to the required voltage.
- Press the CV/CC button and CC/CV will illuminate on the LED display.
- Short the + and - terminals at the output terminals.
- Press the UP or DOWN buttons to obtain the required current value.
- Press and hold the UP or DOWN button and the value will continuously rise or fall.
- Break the shorted connection between + and - then connect the load to begin operation.
- The setting is stored in memory when powering off and recovered from memory by pressing the CV/CC button when powering on.

Note: When the power supply is used with an inductance load such as a DC electric buzzer, install a 4,700uF - 2,200uF 50V electrolytic capacitor across the extension terminals.



Note: When the power supply is used with high frequency instruments such as an ultrasonic soldering tool, the power supply should be grounded using the marked GND terminals.

MAINTENANCE

- Periodically wipe the case with damp cloth and mild detergent. Do not use abrasives or solvents for cleaning. Disconnect from the mains supply first.
- Clean the connection leads occasionally, as dirt on the clips and plugs can affect power transmission.
- Take care to avoid scratching the glass displays when cleaning the LCD.

SPECIFICATIONS

Model	D03234	D03235
Input voltage	220V~50Hz	
Output voltage	0-30V DC	0-60V DC
Output current	0-5A	0-2A
Voltage regulation	CV \leq 1x10 ⁻⁴ +3mV CC \leq 2x10 ⁻³ +6mA	
Load regulation	CV \leq 1x10 ⁻⁴ +3mV CC \leq 2x10 ⁻³ +6mA	
Ripple and noise	CV<1mVrms	
Protection	Current limiting	
Voltage indication accuracy	1%+1d	
Current indication accuracy	1%+1d	
Ambient operating temperature	0-40°C	
Operating humidity	50-80%	
Cooling	Thermostat controlled fan	
Storage humidity	<85%	
Dimensions W x H x D	95 x 150 x 260mm	
Weight	3kg	4kg



INFORMATION ON WASTE DISPOSAL FOR CONSUMERS OF ELECTRICAL & ELECTRONIC EQUIPMENT

These symbols indicate that separate collection of Waste Electrical and Electronic Equipment (WEEE) or waste batteries is required. Do not dispose of these items with general household waste. Separate for the treatment, recovery and recycling of the materials used. Contact your local authority for details of the battery and WEEE recycling schemes available in your area.



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