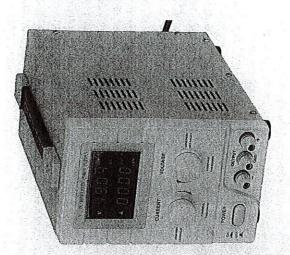


0-30VDC 0-5A Regulated Lab Power Supply User Manual MP-3840



Features:

- Professional, highly flexible lab power supply
- Select precise voltage levels and current limits Prevents overheating, burnout and over-current
- Surface mount technology with a powerful internal cooling system Short-circuit protection
 - 1mV ripple voltage
- 0 to 5A adjustable current limit

0 to 30VDC adjustable voltage output

- Bright 4-digit LCD display Button lock function
- Banana plug/binding posts on front of unit

ore use. Please familiarise yourself with the functions of this product We recommend keeping this manual for ease of reference.

- If you experience issues with this product within the warranty period then please contact Techbrands by Electus Distribution.
 - Only use this product for its intended purpose.
- Modifications to this product are forbidden for safety reasons.
- The warranty will be void if the product has been used in an unauthorised manner and/or the product has been subject to user modifications.
- Any damages caused as a result of disregarding the guidelines within this manual will not be covered by the warranty

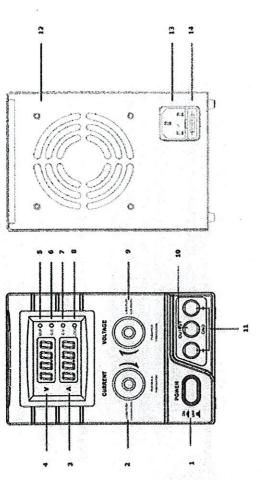
Narnings:

- Keep this product away from children and unauthorised users. 337
 - ALWAYS connect the product to an earthed mains outlet.
- exposure to dust, rain, moisture or spilt liquids is low. Never putobjects Only use this product INDOORS. Keep it somewhere dry where risk of filled with liquids on top of, or close to, the product.
- circumstances. Touching live wires can cause life-threatening electric DO NOT disassemble or open the cover of this product under ANY shocks. Apart from the fuse, there are no user-serviceable parts. 4
- flat, heat resistant surface to use. Do not place the device on carpet, fabric are clear at all times. For sufficient air circulation, create 25mm+clearance in front of the ventilation openings. Ensure you position the product on a This product will heat up during use. Make sure the ventilation openings or any other flammable surface. 2
 - Always disconnect the product from mains power when not in use. Handle the power cable by the plug only. (9
 - Keep this product away from dust and extreme temperatures.
 - Avoid brute force when operating the device. Do not drop it.
 - Immediately discontinue use if you notice any damage to the product's nousing or cables. Do not attempt to repair any damage yourself 686
- Disconnect the product from mains power prior to maintenance activities. Disconnect the product from mains power prior to maintenanceactivit
 Use a moist, lint-free cloth to clean the product. Do not use alcohol or

Replacing The Fuse:

- The fuse is the ONLY component you should service. For all otherissues, please contact Techbrands by Electus Distribution or a specialist repairer.
 - Only replace the fuse with a fuse of the same type and rating.
 - Before replacing the fuse, unplug the mains cable. S.
- Wedge the fuse holder out of its housing with a flat-head screwdriver. 4. 3
- Remove the damaged fuse from its holder and replace with the exact same type of fuse.
- insert the fuse holder back into its place and reconnect power 6

Functions:



- Power button
- Current adjustment dial
- Ampere meter
- (displays voltage limit) Volt meter
- Over-current protection indicator
- (lights up when product is in constant Constant current indicator current mode)
- (lights up when the device is in Constant voltage indicator constant voltage mode)

- Panel lock indicator
- Voltage adjustment dial
- connected to the chassis and earth oin of the power supply socket) Earth (ground) terminal 9
 - Output terminals 7
- Fan 12
- Power supply socket 3
- Fuse holder 7

Operation:

Switching On/Off:

- Connect the enclosed power cable to the back of the product, then plug the other end into an earthed mains power supply. Press the POWER button to switch the power supply on.
- The device will display the last used setting.
- Press the POWER button again to switch the power supply off.
 - Disconnect the product from mains power.

Setting the Output voltage:

- Push the VOLTAGE dial once. The Tens digit will blink. Turn the knob and adjust as desired.
 - Push the VOLTAGE dial again to adjust the Ones digit.
 - Do the same for the tenths and hundredths digits.
- When done, wait a few seconds until the display stops blinking.
 - The voltage is now set.

Setting the Constant Current limit:

- Push the CURRENT dial once. The Tens digit will blink. Turn the knob and adjust as desired.
 - Push the CURRENT dial again to adjust the Ones digit
 - Do the same for the tenths and hundredths digits.
- When done, wait a few seconds until the display stops blinking.
 - The constant current limit is now set.
- mode, the CC LED lights up. Current is kept constant but the voltage Note that the power supply will be in Constant voltage mode until the output current is higher than the set value. When in Constant current changes with respect to load resistance.

Connecting a load:

- Connect the load's positive terminal to the RED positive terminal of the product.
 - Connect the load's negative terminal to the BLACK negative terminal of the product.
- You can connect the positive or negative terminal to the green earth terminal of the power supply. This will pin the voltage to 0V (earth potential) at that terminal.
- If the earth terminal is unconnected, the output floats with respect to

controls Locking the pa

- Lock the front panel controls to prevent accidental/unwanted changes or adjustments.
- Press and hold the CURRENT adjustment dial until the lock indicator ights up. The controls are now locked. Output voltage cannot be
- To unlock the controls, press and hold the CURRENT dial again until the lock indicator switches off.

Over-current protection:

- Press and hold the VOLTAGE adjustment dial until Off/On is displayed on the LCD screen.
- Turn the Voltage dial to adjust to On. OCP indicator will light up.
- To change the OCP limit, push the CURRENT dial and adjust as
- When done, press and hold the Voltage dial for 3 seconds and release. OCP limit is now set.
- If the output current becomes higher than the set value, the power supply will cut offand the OCP indicator flashes.
- To disable OCP, press and hold the VOLTAGE adjustment dial until On To recover, turn off the power supply. Disconnect the load. Restart the power supply.

is displayed on the LCD screen. Turn dial to change to Off. Push

Voltage dial once to exit.

Troubleshooting:

Problem:

Nothing happens when the buttons on the panel are pushed.

supply unit and the output is switched Power is being delivered to the power on, but there is no output. The output voltage rises slowly when the output is switched on.

Solution:

Check the panel controls are not locked. To unlock, press and hold the Current dial until lock indicator is off.

Alternatively, the current is set to properly. Check the connections. The load may not be connected Review the settings and adjust accordingly. The set current is too low. Review the settings and adjust accordingly.

Technical Specifications:

220-240AC 50-60Hz Input Voltage:

0-30V adjustable (10mV accuracy) Output Voltage:

0-5A adjustable (1mA accuracy) Output Current:

1mV Ripple Voltage: Ripple Current:

3mA

270(L) x 120(W) x 185(H)mm

Dimensions:

Weight:

4.8kg

This product must not be disposed of as domestic waste. It must be disposed of at an authorised place for recycling of electrical equipment and appliances. By recycling waste, you help save natural resources and make sure the product is disposed of in an environmentally friendly manner.

Distributed by:

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