



# Power Supply, 0-15v Stepped

## Code: 605-055

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**Thank you for your purchase of this power supply unit. This unit is robust and will provide many years of use if proper operating techniques are developed.**

**Please read the following instructions carefully and always keep this manual within easy reach.**

#### **Features:**

The Edu-Lab 0-15V power supply is a popular general purpose bench power supply unit which provides stepped output voltage of 0-15V in one volt steps for both AC and DC. Please note that this is not a regulated power supply so the actual power output will vary from the displayed output.

- A special key lock with a key which is unique to this model (all 605-055 models have identical keys) allows the voltage to be locked to a particular level or to a maximum (ceiling) so students cannot exceed this ceiling.
- Long switch lift time means that voltage can be switched safely at full load without serious contact wear.
- Output protection is handled by a 30Amp ultra-heavy duty relay. The outputs are opened momentarily, controlled by a Micro-Processor, between switching times.
- Continuously rated output of 8.5A, AC or DC, or added sum of 8.5A, individual sensing of AC current and DC current by micro-processor.
- The Set ceiling or locked voltage will be memorized, even if the unit is switched off and on again.
- Fully protected secondary by high speed, micro-processor controlled, resettable electronic strip. Over-current is measured and timed for cases of serious overload and slight overload to decide tripping time This avoids over-sensitive tripping in cases of initial heavy current surge, for example when using lamp bulbs.
- Slow-blow fuse protection for transformer primary
- Additional Thermal Trip protection for transformer.
- Schottky barrier diodes are employed for rectification with less voltage drop and power waste and thus eliminate the need for a noisy & trouble-making cooling fan.



**Specification:**

Size: 205 mm x 150mm x 115mm (Width x Height x Depth)

Input voltage: 220V-240V, 50Hz, AC

Output voltage: 0-15V AC at full load.

Slightly smoothed DC (by 2200 $\mu$ F output capacitor) gives practical r.m.s. values of 0 -15V at no load.

**Maintenance:**

The power supply is very robust and it will, under normal use, require very little or no maintenance. In the rare case that the primary fuse is blown, use a small screwdriver to slide out the fuse cabinet which is located on the I.E.C. mains socket on the back panel of the unit, and replace the fuse with a 1A, 20mm x5mm (T) slow blow fuse.

Never open the power supply case. There are no user-serviceable parts inside.

If a fault develops, please contact us on the number shown below to arrange for a repair/replacement.

**Guarantee**

This unit is guaranteed against manufacturing faults and defects for a period of 5 (five) years from the date of purchase. This excludes fair wear and tear and is dependent upon the unit being treated with appropriate respect and used in the correct application under the limits stated above.

Please Note: Due to our policy of continuous improvement, we reserve the right to change the specification without prior notice

