

# 1.5V - 24V Variable Metered Power Supply

## General Description

The unit allows DC voltages between 1.5V and 24V to be selected via the front panel mounted control knob. The maximum current available before regulation and smoothing are lost is approximately 1.4A. The output is monitored by an analogue panel meter and is accessed via colour coded terminal posts. The terminal posts will accept 4mm plugs and crocodile clips by direct insertion. If the coloured section of the terminal post is unscrewed, 2mm plugs or bared wire may be inserted through the cross drilled hole and the terminal tightened to clamp in place. The unit is short circuit and overload protected although prolonged overload should be avoided.

## Mains Supply

The unit is designed for 240V AC operation. The mains lead should be plugged into the fused IEC panel plug at the rear of the unit. Should the mains rocker switch not illuminate when switched on, the plug fuse (3A or 5A) should be checked and then the rear panel mounted fuse (20 x 5mm, 500mA quick blow). Remove the mains lead and insert a small screwdriver in the slot to disengage the fuse drawer. Pull the drawer out and inspect/replace the fuse. Push the drawer home, ensuring that the '240V' legend is uppermost.

## Electrical Safety Testing

The unit is classified as Class 1 for the purposes of safety testing. Suitable earth test points are any of the eight lid securing screws. For further details on safety testing, please refer to Health and Safety Executive leaflet GS23 (ISBN 0 11 883567 X).

## Specification

### Input

Supply voltage	230V ac
Supply frequency	50Hz
Maximum power	50W
Panel fuse rating	500mA quick blow
Mains plug fuse rating	3A or 5A

### Output

Voltage	1.5 - 24V smoothed and regulated
Maximum output current	1.4A

## Electromagnetic Compatibility

The use of this apparatus outside the classroom, laboratory, study area or similar such place invalidates the conformity with the protection requirements of the Electromagnetic Compatibility Directive (89/336/EEC) and could lead to prosecution.