

# 5V 2A Stabilised Power Supply

## Getting Started

The unit is designed for 240V AC operation only (a 120V version is available to special order). Plug in the unit and switch on using the rocker switch on the front panel. If all is correct, the rocker switch should illuminate, showing that the mains is present, and the light emitting diode (led) situated between the output terminals should glow green showing that the output voltage is present at the terminals.

## Using the Unit

The unit delivers 5 volts smoothed direct current at up to 2 amp loading. This is delivered via colour coded terminal posts. The output is short circuit protected - short circuit condition is indicated by the output monitor led turning red and a buzzer sounding. The buzzer has been given an irritating sound to minimise its attraction as a 'Morse Code' sounder! The unit will reset once the fault condition is rectified.

**PROLONGED SHORT CIRCUIT CONDITIONS SHOULD BE AVOIDED.**

## Suggested Uses

The unit is suitable for the following uses.

1. 'Bulb and Battery' lessons requiring series and parallel wiring etc. The use of 6V, 0.06A MES lamps gives extended life to the lamps as they are always under run. Up to 16 lamps may be wired in parallel.
2. Powering commercial electronics teaching boards including mfa, Locktronics, Mistec, Omega, Alpha, etc.
3. Powering transistor circuitry, CMOS circuitry and TTL circuitry.
4. Powering hybrid circuits containing any of the above.
5. Powering operational amplifiers - this may be achieved by wiring two of the units together by linking the red terminal of one unit to the black terminal of the other. This junction then becomes the 0 volts point with the remaining red and black terminals supplying +5V and -5V respectively.

## Fusing

Please note that should the mains plug fuse blow, it should only be replaced with a 3A fuse **NOT A 13A FUSE.**

## Safety Testing

The unit is rated as a Class 1 (earthed) appliance. To perform an Earth Bond test using a suitable PAT, the recommended test points are any of the eight screw heads at the sides of the case. For further details on safety testing, please refer to Health and Safety Executive leaflet GS23 (ISBN 0 11 883567 X).

## 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.