

# 12V 2A d.c. Power Supply

## General Description

The unit provides an unregulated, unsmoothed d.c. output of 12V at a current load of 2A. This makes the unit suitable for powering 12V, 24W lamps in such units as ray boxes, ripple tank illuminants, low voltage microscope illuminants etc. Output is taken via colour coded 4mm terminals which will accept 4mm and 2mm plugs, bared wire or crocodile clips. The output is monitored by a red led. The unit is double insulated and comes fitted with a moulded 13A mains plug fitted with a 3A fuse.

**N.B. This unit is not suitable for powering ray boxes with 12V 36W lamps.  
We manufacture a unit specifically for this purpose.**

## Using the Unit

The unit should be plugged into a suitable mains outlet. The red led will glow indicating that power is available. Should the led not glow, then the mains plug fuse should be checked and replaced as necessary - replacement fuse may be 1A, 2A or 3A. **Do not fit a 13A fuse.**

If a short circuit occurs, the red led will extinguish and a regular clicking sound will be heard. On removal of the fault, the unit will reset within five seconds.

## Electrical Safety Testing

The unit is classified as Class 2 (double insulated). When performing safety checks in compliance with Health and Safety Executive leaflet GS23 (ISBN 0 11 883567 X), an earth bond test is not required.

## Specification

### Input

|                        |           |
|------------------------|-----------|
| Supply voltage         | 230V a.c. |
| Supply frequency       | 50Hz      |
| Maximum power          | 25W       |
| Mains plug fuse rating | 3A        |

### Output

|                        |                      |
|------------------------|----------------------|
| Voltage                | 12V unregulated d.c. |
| Maximum output current | 2.1A                 |

## 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.