

12V 3A a.c. Power Supply

General Description

The unit provides an unregulated, alternating current output of 12V at a current load of 3A. This makes the unit suitable for powering 12V 36W lamps in such units as ray boxes, ripple tank illuminants, low voltage microscope illuminants etc. The unit is fitted with a resettable cut-out to protect against short circuits. 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 yellow led. The unit is double insulated and comes fitted with a moulded 13A mains plug fitted with a 3A fuse.

Using the Unit

The unit should be plugged into a suitable mains outlet. The yellow 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 yellow led will extinguish and the cut-out will pop out. Unplug the unit, wait ten seconds and reset the cut-out.

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	40W
Mains plug fuse rating	3A

Output

Voltage	12V unregulated a.c.
Maximum output current	3A

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.