

5, 9, 12, 15, 24V Single Rail Switched Power Supply

General Description

The unit is designed to supply the selected smoothed, regulated dc voltage at currents up to 1A. The output is delivered through 4mm terminal posts coloured red for +V and black for -V. The output is monitored via a coloured led system which glows green when the output is normal and red when the output is short circuited. The unit is designed to withstand short term short circuit and overload conditions but prolonged excessive current drain should be avoided.

Mains Supply

The unit is designed for 220/240V 50/60Hz operation only and is supplied with a fixed mains lead and moulded plug. Should the mains rocker switch and output monitor led not illuminate when the unit is switched on, the mains plug fuse should be checked - replace with a fuse rated 3A or 5A. **Do not use a 13A fuse under any circumstances.** Should the mains plug fuse be intact, the internal fuse should be tested. Access to this is gained by unscrewing the eight screws which secure the cover to the base, and gently lifting away the cover (an earthing strap is bolted to the cover). Ensure that the unit is disconnected from the mains supply, locate the fuse holder which is on the printed circuit board next to the mains rocker switch. Prise away the insulating cowl and remove the fuse. Replacement fuse is a 1A quick blow, 20mm.

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	35W
Panel fuse rating	1A quick blow
Mains plug fuse rating	3A or 5A

Output

Voltage	5, 9, 12, 15 and 24V smoothed and regulated
Maximum output current	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.