

5V 5A Heavy Duty Power Supply

General Information

The unit is specifically designed for high current applications such as powering high wattage lamps, electromagnetism and the heating effect of a current experiments. The output is a nominal 5V full wave rectified DC and is unsmoothed and unregulated. This means that the output voltage will vary somewhat according to the amount of current being drawn. For accurate calculations of power delivered, a voltmeter and ammeter should be used.

The unit is protected against overload and short circuits by a fast acting, automatically resetting cutout which operates when currents above approximately 5.5A are drawn. When the cutout operates, the yellow output led will flash and a clicking noise may be heard. Upon removal of the fault, the cutout will reset within 5 seconds.

The output is available through two colour coded 4mm terminal posts which will accept 4mm and 2mm plugs, crocodile clips and bared wire. The 2mm plugs and bared wire are connected by unscrewing the terminal post and using the 2mm hole drilled through the metal section.

The unit is fitted with a moulded mains plug. Should the mains fuse fail, then replacement is a 3A or 5A fuse. **Do not fit a 13A fuse.**

When the unit is delivering high currents, a faint buzzing may be heard and a slight warming of the case may occur. These effects are perfectly normal and do not indicate a fault.

Electrical Safety Testing

The unit is classified as Class 2 (double insulated) for the purposes of safety testing and does not require an earth bond test. For further details on safety testing, please refer to Health and Safety Executive leaflet GS23 (ISBN 0 11 88357 X).

Specification

Input

Supply voltage	230V ac
Supply frequency	50Hz
Maximum power	100W
Mains plug fuse rating	3A

Output

Voltage	5V
Maximum output current	5A

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.