

The Scorpion

The Scorpion comes ready for use and is supplied with a shatterproof, moulded mains plug. The output voltage 5, 6, 9 or 12V is selected by the rotary switch. The output voltage is regulated and smoothed and may be used to power lamps, motors, electronic circuitry etc.

Using the Scorpion

Plug the Scorpion into a 13A mains socket and push the power button if necessary - the two green leds should light up. The led nearest the power switch indicates that there is mains power present whilst the led between the output terminals monitors the output.

Should neither led light, then the mains plug fuse (2A, 3A or 5A) should be checked - there are no user serviceable parts inside the Scorpion.

Should the output led go out in use, this indicates that the output leads from a red and black terminal are connected together without a load (e.g. a lamp) between them - a so called 'short circuit' condition. On removal of the fault, the Scorpion will reset itself.

The output terminals are colour coded - red for positive and black for negative. They will accept 4mm plugs and bared wires. 4mm plugs fit directly into the socket. If the terminal is unscrewed, a hole will be found drilled through the metal post - this will accept 2mm plugs or bared wire may be threaded through and the terminal retightened to make a firm connection.

Please note: The Scorpion is not suitable for high current applications such as heating and electromagnetism experiments.

N.B. When the Scorpion is working hard, a faint buzzing noise may be heard and a slight warming of the case will occur - this is perfectly normal and does not indicate a fault.

WARNING! Do not attempt to use the Scorpion to charge Nickel Cadmium Batteries

Electrical Safety Testing

The unit is of Class 1 construction. Suitable earth bond test points are any of the bolt heads on the underside of the unit. 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	25W
Mains plug fuse rating	3A

Output

Voltage	5, 6, 9 or 12V smoothed and regulated dc
Maximum output current	1.5A

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.