

2002 6A Lockable Power Supply

General Description

The unit provides simultaneous a.c. and capacitor smoothed d.c. outputs up to a maximum combined current of 6A. The output is monitored by a sophisticated cut-out system. Should more than 6A be drawn, the monitor led will change from green to red, a buzzer will sound and power will be removed from all the terminals. Reset is achieved by switching off the mains for five seconds and then switching on again.

The a.c. and d.c. voltages marked on the selector are nominal and will depend on the amount of current being drawn - this is particularly so in the case of the d.c. due to the capacitor smoothing. The capacitor smoothing on the d.c. output means that it is suitable for basic electronics work.

The outputs are taken through colour coded 4mm terminal posts which accept 4mm plugs, 2mm plugs, crocodile clips, spade terminals or bared wire. All outputs are fully floating.

The power is switched on/off via a rear panel mounted rocker switch. A lamp on the front panel illuminates when power is on. The rear panel also contains a mains fuse holder (F2A).

For storage purposes, the mains lead and plug may be stowed in the back of the unit.

Electrical Safety Testing

The unit is classified as Class 1 (earthed) for the purposes of electrical safety testing. Suitable earth test points are any of the three screws on the underside of the unit towards the front. For further details on safety testing, please refer to Health and Safety Executive leaflet GS23 (ISBN 0 11 883567 X).

Electromagnetic Compatibility

The use of this apparatus outside the classroom, laboratory, study area or similar such place invalidated the conformity with the protection requirements of the Electromagnetic Compatibility Directive (89/336/EEC) and could lead to prosecution.