

2001 Triple Output Power Supply

General Description

The unit comprises three separate power supplies which may be used simultaneously at full load. These are:

- A. 3-15V continuously variable. Smoothed and regulated. Current limited at 1.5A.
- B. 3-15V continuously variable. Smoothed and regulated. Current limited at 1.5A.
- C. 5V fixed voltage. Smoothed and regulated. Current limited at 1A.

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 outputs are monitored via a 19.99V d.c. digital voltmeter which is controlled by a four position switch, which selects the power supply to be monitored. The fourth position (D) allows an external source to be read via two 4mm sockets.

Power supplies A & B have independent voltage control switches allowing them to be independently set, when the small toggle switch is set to the left hand setting. When the switch is set to the right, the control for PSU B controls both power supplies - tracking is within 0.25V.

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 invalidates the conformity with the protection requirements of the Electromagnetic Compatibility Directive (89/336/EEC) and could lead to prosecution.