

APS Westminster Power Supply

Instructions for Use

General Description

The unit provides high current, low voltages for electromagnetic experiments. The amount of current available is very dependent on the resistance of the external circuit. The unit is designed to withstand continual short circuiting and, therefore, has no thermal cut-out which might trip when high currents are being drawn.

The unit is capable of providing higher currents than the nominal 12A specification. Short circuiting the ac terminals through the multimeter set to 20A ac will show a current of approximately 12A but if the connecting leads are replaced with heavy duty solid copper wire (e.g. short lengths of house wiring cable), a larger current is obtainable.

Fusing

The unit is protected by a rear panel mounted 500mA, 20mm quick blow fuse and the mains plug should be fitted with a 3A or 5A fuse.

Electrical Safety Testing

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

Specification

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|----------------|--|
| Input voltage | 230/240V 50/60Hz ac |
| Input current | 200mA at full loading |
| Output voltage | approximately 1.6V ac approximately 1.6V dc |
| Output current | approximately 12A @ 0.05 ohms |

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.