

20V Varivolt Power Supply

Introduction

The unit is designed for use in circuits requiring variable low voltage a.c. and unsmoothed d.c. at high currents e.g. for operating motors, lamps, heating elements etc. When used with a suitable smoothing unit, the d.c. output can be used to power simple colorimeters, spectrophotometers and transistor amplifiers. The unit may also be used in work on transistors, electromagnetism and magnetic deflection of an electron beam in a discharge tube.

Outputs

The unit supplies continuously variable a.c. up to 20V at 8A maximum continuous current and unsmoothed, full-wave rectified d.c. up to 20V at 6A maximum continuous current or 8A for short periods.

The outputs are available from two pairs of 4mm sockets mounted on the front panel. The d.c. sockets are colour coded red/black and the a.c. sockets are colour coded white.

Both outputs are controlled by a single knob with the a.c. voltage indicated on the graduated scale.

In the event of the outputs becoming overloaded or short-circuited, the current sensing circuit breaker on the front panel will operate. Disconnect the output before pressing the button marked 'PRESS TO RESET' to reset the circuit breaker.