DUAL OUTPUT POWER SUPPLY

Introduction

This instrument is designed as a general purpose laboratory power supply. It will supply a.c. at 2, 4, 6 and 12V at currents of up to 4A continuously or up to 5A for periods of 1 hour maximum. It will also supply smoothed and regulated d.c. which is continuously variable from 0V to 24V at currents of up to 3A. The outputs are isolated and operate independently of each other.

Operation

The a.c. output is selected by means of the 4-position switch on the front panel. To prevent damage to this switch:

DISCONNECT a.c. OUTPUT BEFORE SWITCHING RANGE

The output is supplied via a pair of 4mm sockets colour coded white. In the event of overload or short circuit of the a.c. output, the current sensing circuit breaker on the front panel will operate. Disconnect the output before pressing the button marked 'PRESS TO RESET a.c.' to reset the circuit breaker.

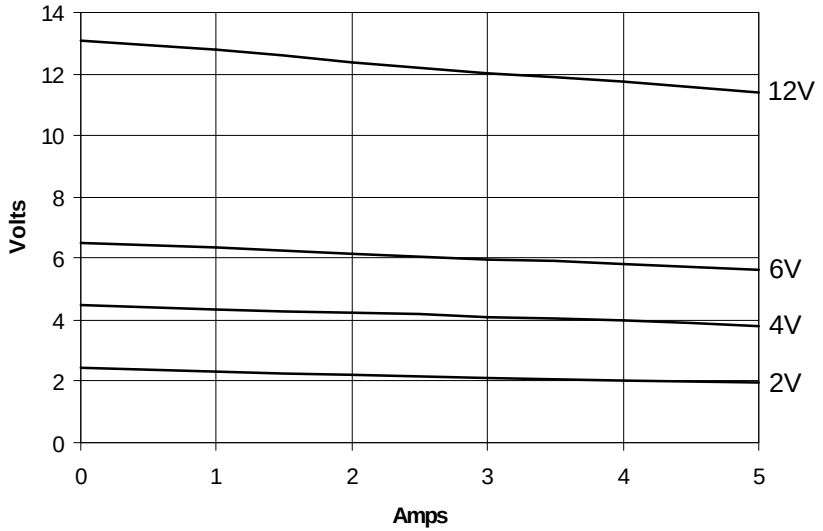
The d.c. output is supplied via a pair of 4mm sockets colour coded red (positive) and black (negative). The output voltage is indicated on the graduated scale. The d.c. output is protected against overload or short circuit by an electronic regulator.

Note

The outputs may be used simultaneously as long as the combined load does not exceed 3A.

When any power supply is supplying current to a load, the voltage output will decrease slightly as the current supplied is increased. The graphs opposite show how the voltage level of each selected range drops as the current supplied increases.

Dual Output Power Supply a.c. Output Load Regulation



Dual Output Power Supply d.c. Output Load Regulation