Power Supply

PSSC Type, 12V.AC. Input

LB2621-001 2x 100V.DC, 2x 200V.DC, 2X 6.3V.AC.

Description:

This low cost simple power supply was part of the old 'PSSC' method of science teaching. It is designed for use with the 'Mass of an Electron' experiment. Using 12V.AC. input (not mains voltage), it provides both 100V.DC. and 200V.DC. outputs for running the anode of the 'Magic Eye' tube. Also 6.3V.AC. is provided for running the tube heater.

Dual outputs are provided so that 2 experiments can be performed at the same time from the same power supply. A 'power on' LED indicator is provided.

Other Uses:

Although this power supply is designed specifically for the 'Mass of an Electron' (or e/m) experiment, it is a useful general purpose power supply where preset voltages are required.

Length: 140mm	Width: 110mm	Height: 120mm	Weight: 1.2kg

Specifications:

Input:

12V.AC. 50/60Hz.

Outputs:

- 2x DC output: 250V.DC at no load. 7.5mA output current max.. This is used to power up the ‘Magic Eye’ tube anode / cathode circuit. Red and black 4mm, 1x spin free, socket terminal and 1x safety socket.
- 2x DC output: 100V.DC at no load. 15mA output current max.. This is used for general purpose. Red and black 4mm, 1x spin free, socket terminal and 1x safety socket.
- 2x AC. output: 6.3V.AC. at 1 amp output current. This is used to power up the heater of the ‘Magic Eye’ tube so that electrons can be created at the cathode. Yellow and black 4mm, 1x spin free, socket terminal and 1x safety socket.
- Protection: Input protection: Fuse, 20x5mm, 4 amps. Output protection on the DC outputs is simple resistive protection against short circuits.

  All output voltages are referenced to a single common terminal and all outputs may be used at the same time

Designed and manufactured in Australia