



Experimental Training Board has been designed to practically demonstrate the operation of a Switching Mode Power Supply. The Switching waveform and various voltages can be observed on the test points provided on the panel.

Practical experience on this board carries great educative value for Science and Engineering Students.

**Object:**

01. To observe various voltages and Switching waveforms on the SMPS Circuit.
02. To demonstrate the effect of load variation on the switching waveform.
03. To measure the following :
  - (a) Ripple.
  - (b) Load regulation.
  - (c) Line regulation.

**Features:**

The board consists of following built-in parts :

01. Complete SMPS circuit based on IC-723, having output 5V D.C. at 1.5 Amp.
  02. D.C. Voltmeter, 65mm rectangular dial to read 0-30V.
  03. D.C. Ammeter, 65mm rectangular dial to read 0-2Amp.
  04. Three fixed value loads.
  05. Mains ON/OFF switch, Fuse and Jewel light.
- \* The unit is operative on 230V  $\pm$ 10% at 50Hz A.C. Mains.
  - \* Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length  $\frac{1}{2}$  metre.
  - \* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms.
  - \* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

**Other Apparatus Required:**

- \* Cathode Ray Oscilloscope 20MHz
- \* Variac 0-270 Volt at 2 Amp

Note: Specifications are subject to change.

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