



Experimental Training Board has been designed specifically for the study of Switching Mode Power Supply (SMPS) for Colour Television. The training board is assembled on enlarged PCB with different test points to observe waveforms and voltages. Now a days Switching Mode Power Supplies are extensively used in Colour Televisions i.e. 14" & 20" CTV's.

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

**Object:**

01. To study different sections of SMPS.
02. To locate typical components and Input/Output signals.
03. To measure the voltages at test points and Input/Output signals.
04. To study the circuit in detail.
05. To create faults by removing components and observe their effect.

**Specifications:**

01. High Voltage Output : 110V / 115V  $\pm 5\%$  at 550mA max.
  02. Low Voltage Outputs : 24V  $\pm 2\%$  at 1 Amp. max.  
18V  $\pm 2\%$  at 1 Amp. max.  
12V  $\pm 2\%$  at 1 Amp. max.
  03. Input Voltage : 180V to 270V AC, 50Hz.
  04. Power Output : 90 Watts  $\pm 10$  Watts / (as required for 20" Colour Television).
- \* Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms/voltages

**Other Apparatus Required**

- \* Digital Multimeter 3½ Digits
- \* Cathode Ray Oscilloscope 20 MHz
- \* Variac 2Amp
- \* Rheostat up to 24E, 1Amp
- \* Bulb 60W with Holder for 110V D.C. test.

Note: Specifications are subject to change.

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