



Power Electronic Training Board has been designed specifically for the study of the firing circuit for single-phase converter using Op-Amps and Gates.

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

Object:

To study firing circuit for single-phase converter using Op-Amps and Gates.

Features:

The board consists of the following built-in parts:

01. 6V AC at 100mA, AC Power Supply.
 02. $\pm 12V$ DC at 100mA fixed regulated Power Supply.
 03. Eight Op-Amp's IC,
 04. Quad 2 input AND gate IC.
 05. Two NPN Transistors.
 06. Two Pulse Transformers 1:1.
 07. Three Potentiometers.
 08. Adequate no. of other Electronic Components.
 09. 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 4 mm spring loaded plug length $\frac{1}{2}$ meter.
 - * 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:

- * Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)
- * OPTIONAL : Unit for above experiment to work as a load having
- * Isolation Transformer 50 watt.
- * Lamp 40 watt
- * SCR 400V 4A
- * Mains ON/OFF switch, Fuse & Jewel light.

Note: Specifications are subject to change.

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