



Power Electronic Training Board has been designed specifically study of single phase half wave controlled converter.

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

**Object:**

Study and obtain the waveforms for single-phase half wave controlled converter.

**Features:**

The board consists of the following built-in parts:

01. 230V A.C. Isolated Transformer, Power 50 watt.
  02. 9V D.C. at 100mA Zener Regulated Power Supply.
  03. Silicon Controlled Rectifier (SCR).
  04. Uni Junction Transistor.
  05. Pulse transformer 1:1.
  06. Potentiometer for controlling UJT firing angle.
  07. Bulb 40W, 230V A.C.
  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 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:**

- \* Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)/with Isolation Transformer for unearthing.

Note: Specifications are subject to change.

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