

Power Electronic Training Board has been designed specifically to study and obtain the single phase fully controlled bridge converter using (i) R-load (ii) R-L load and (iii) effect of free wheeling diode in R-L load.

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

Object:

To study and obtain the single phase fully controlled bridge converter using (i) R-load (ii) R-L load and (iii) effect of free wheeling diode in R-L load..

Features:

The board consists of the following built-in parts:

01. 35V D.C. at 500mA Zener Regulated Power Supply.
 02. Bridge rectifier for making DC voltage.
 03. Two UJT.
 04. Four SCR's.
 05. Two Pulse transformer 1:1:1.
 06. Two Potentiometers for controlling UJT firing angle.
 07. Bulb 12V 5W.
 08. Inductor 20mH.
 09. Adequate no. of other Electronic Components.
 10. 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 ½ 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 20 MHz (Unearthed)/with Isolation Transformer for unearthing.

Note: Specifications are subject to change.

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