



46571 Power Electronic Training Board has been designed specifically to use a Bridge Rectifier for full wave rectification of sinusoidal ac supply and to determine the relation between r.m.s. and average values of rectified voltage. Practical experience on this board carries great educative value for Science and Engineering Students

Object

- 01 To connect a Bridge Rectifier for full wave rectification.
- 02 To measure amplitude of the input and output voltage of Bridge Rectifier with help of CRO.
- 03 To verify the relation between r.m.s. and average values of rectified O/P voltage.
- 04 To verify that Moving Iron Type read r.m.s. value and Permanent Magnet Moving Coil Type Instrument read average values of an alternating voltage or current.

Features

The board consists of the following built-in parts:

- 01 Bridge Type Silicon Rectifier
- 02 Moving Iron Voltmeter 0-50 V AC/DC.
- 03 Moving Coil Voltmeter 0-50 V DC.
- 04 Transformers having five tapping of different voltages COM - 10 - 15 - 20 - 25 - 30 V at 0.3Amps.
- 05 Three Resistances of high wattage as a load (100E/20W, 250E/10W, 500E/5W)
- 06 Mains ON/OFF Switch, Fuse and Jewel light
- 07 The Unit is operative on 230VAC $\pm 10\%$ at 50 Hz.
- 08 Adequate no. of patch cords stackable 4mm spring loaded plug length 50cm.
- 09 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.
- 10 Strongly supported by detailed Operating Instructions, giving details of Object Theory, Design procedures, Report Suggestions and Book References.
- 11 Weight : 2.900 Kg. (Approx.)
- 12 Dimension : W 340 x H 125 x D 210

Other Apparatus Required :

- 01 Dual trace CRO 20MHz

Note: Specifications are subject to change.