Order Code - 46536
Single Phase Half Controlled Symmetrical & Asymmetrical Bridge Converter

Power Electronic Training Board has been designed specifically to study and obtain the waveforms for single phase half controlled symmetrical & asymmetrical bridge converter.

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

Object

01. To study and obtain the single phase half controlled symmetrical bridge converter.
02. To study and obtain the single phase half controlled asymmetrical bridge converter.

Features

The board consists of the following built-in parts:

01. An isolation transformer 230V A.C. at 200mA. This protects external instruments for damage if they are not isolated.
02. 6V AC at 100mA AC Power Supply.
03. ±12V DC at 100mA fixed regulated Power Supply.
04. Two Op-Amp's. IC.
05. Quad, Ex-OR gate IC.
06. Triple, 3 input AND gate IC.
07. Hex inverter gate IC.
08. Quad, two input AND gate IC.
09. Three NPN Transistor.
10. Two SCR's.
11. Potentiometer for referance voltage adjustment.
12. Two Pulse Transformer 1: 1.
13. 40 watt bulb.
14. Adequate no. of other Electronic Components.
15. Mains ON/OFF switch, Fuse and Jewel light.

* The unit is operative on 230V ±10% at 50Hz A.C. Mains.
* Adequate no. of patch cords stackable 4 mm spring loaded plug length ½ metre.
* Good Quality, reliable terminal/sock ets 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.
* Weight : 7 Kg. (Approx.)
* Dimension : W 412 x H 150 x D 310

Other Apparatus Required

* Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)

Note: Specifications are subject to change.

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