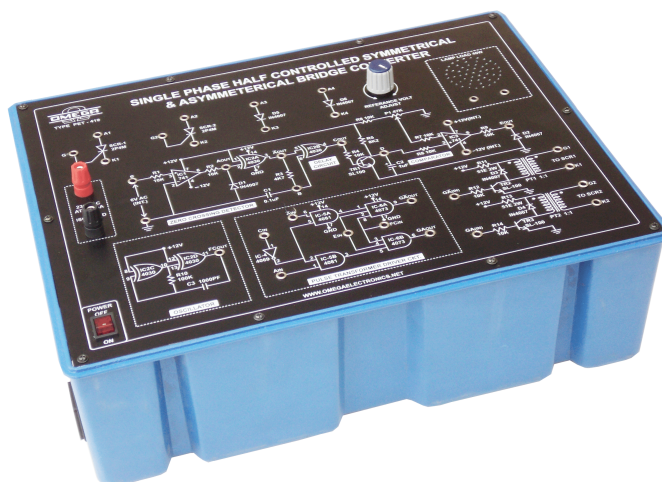


**SINGLE PHASE HALF CONTROLLED
SYMMETRICAL & ASYMMETRICAL
BRIDGE CONVERTER
OMEGA TYPE PET-419**



OMEGA TYPE PET-419 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 $\pm 12V$ 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 references 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.
- 16 The unit is operative on 230V $\pm 10\%$ at 50Hz A.C. Mains.
- 17 Adequate no. of patch cords stackable 4 mm spring loaded plug length 50cm.
- 18 Good Quality, reliable terminal/socket ets are provided at appropriate places on panel for connections/ observation of waveforms.
- 19 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 20 Weight : 6.100 Kg. (Approx.)
- 21 Dimension : W 415 x H 165 x D 315

OTHER APPARATUS REQUIRED:

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

OMEGA ELECTRONICS