



**OMEGA TYPE PET-423** Power Electronic Training Board has been designed specifically for the study of the firing circuit for single-phase converter using Ramp Comparator Scheme.

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

#### OBJECT

01 To study the firing circuit for single-phase converter using Ramp Comparator Scheme.

#### FEATURES

The board consists of the following built-in parts:

- 01 6VAC at 100mAAC Power Supply.
- 02  $\pm 12V$  DC at 100mA fixed regulated Power Supply.
- 03 Two Op-Amp's IC
- 04 Quad, Ex-OR gate IC.
- 05 Triple, 3 input AND gate IC.
- 06 Hex inverter gate IC.
- 07 Quad, two input AND gate IC.
- 08 Two NPN Transistor.
- 09 Potentiometer for reference voltage adjustment.
- 10 Pulse Transformer 1: 1.
- 11 Adequate no. of other Electronic Components.

12 Mains ON/OFF switch, Fuse and Jewel light.

13 The unit is operative on  $230V \pm 10\%$  at 50Hz A.C. Mains.

14 Adequate no. of patch cords stackable 4 mm spring loaded plug length 50cm.

15 Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.

16 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

17 Weight : 3 Kg. (Approx.)

18 Dimension : W 340 x H 125 x D 210

#### OTHER APPARATUS REQUIRED (Not Included):

- 01 Dual trace CRO 20MHz OMEGA TYPE CRO-20
- 02 OPTIONAL : Unit for above experiment to work as a load having \* Isolation Transformer 50 watt.  
\* Lamp 40 watt \* SCR 400V 4A \*.

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

**OMEGA ELECTRONICS**