



**46707** Power Electronic Training Board has been designed specifically for the study of Three phase half wave AC voltage controller drive with Triggering Circuit.  
Practical experience on this board carries great educative value for Science and Engineering Students.

#### **Object**

1. To study of Three phase half wave AC voltage controller.

#### **Features**

The board consists of the following built-in parts:

1. Three Phase line commuted Half wave bridge converter.
2. Four pole Miniature Circuit Breaker (MCB) 0.5Amp.
3. Three separate identical cards consisting of Zero Crossing Detector, Integrator, Comparator and Pulse Generator one for each phase, for controlling the triggering angles of the positive group of three thyristors. Angles of the negative group of three diodes.
4. Firing angle control potentiometer.
5. Three 230:50V at 0.5Amp transformer for rectifications & 6V AC supply for Triggering
6.  $\pm 12V$  at 100mA, IC regulated Power Supply for Triggering Circuits.
7. Three nos. Driver Circuits with Pulse Transformers.
8. High Frequency Gated Dual Gate Firing 3 nos.
9. Three Phase Inbuilt Resistive Load.
10. Two  $3\frac{1}{2}$  digital panel meter (DPM) for measurement of voltage and current.
11. Adequate no. of other Electronic Components.
12. Three jewel lights.
13. The unit is operative on 3Phase 415V at 50Hz A.C. Mains.
14. Good Quality, reliable safety Shrouded sockets are provided at appropriate places on panel for connections/ observation of waveforms.
15. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
16. Weight : 7.200 Kg. (Approx.)
17. Dimension : W 415 x H 165 x D 315.

#### **List of Accessories:**

1. Patch cord 4 mm length 50cm Red...07
2. Patch cord 4 mm length 50cm Black.07

#### **Other Apparatus Required:**

1. Dual trace CRO 20MHz

Note: Specifications are subject to change.