



**46704** Power Electronic Training Board has been designed specifically for the study of Single Phase full wave converter Drive. Practical experience on this board carries great educative value for Science and Engineering Students.

**Objects:**

1. To Study Single Phase full wave converter Drive using ramp comparator firing circuit.

**Features**

The board consists of the following built-in parts:

1. 6V AC at 100mA AC Power Supply.
2.  $\pm 12V$  DC at 100mA fixed regulated Power Supply.
3. Four SCR and Four Diode
4. Six Op-Amp's. IC
5. Triple, 3 input AND gate IC.
9. Two NPN Transistor.
10. Firing angle control potentiometer.
11. Pulse Transformer 1 : 1.
12. Two 3½ digital panel meter (DPM) for measurement of voltage.
13. Adequate no. of other Electronic Components.
14. Mains ON/OFF switch (MCB), Fuse and Jewel light.
15. MCB 2Amp 1Pole.
16. DC Shunt Motor.

**Rating :** ½ HP, **RPM :** 1500 (No Load)

17. Good Quality, reliable Shrouded socket are provided at appropriate places on panel for connections/ observation of waveforms.
18. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
19. Power supply : 230VAC 50/60Hz.
20. Weight (Board) : 5.200 Kg. (Approx.)
21. Weight (Motor) : 20.600 Kg. (Approx.)
22. Dimension : W415 x H 165 x D315.

**List of Accessories:**

1. Shrouded Patch cord 4mm length 50cm. Red ..... 10
2. Shrouded Patch cord 4mm length 50cm Black.....10
3. Shrouded Patch cord 4mm length 100cm Red ..... 02
4. Shrouded Patch cord 4mm length 100cm Black..... 03

**Other Apparatus Required (Not Included):**

1. Dual trace CRO 20MHz

Note: Specifications are subject to change.