



**Product Code . JL-PET-1436**

## Firing Circuit Using Cosine Wave Scheme

### Description

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#### Firing Circuit Using Cosine Wave Scheme

- Power Electronic Training Board has been designed specifically for the study of the firing circuit for single-phase converter using cosine wave comparator scheme.
- Practical experience on this board carries great educative value for Science and Engineering Students.

#### Object:

- To Study firing circuit for single-phase converter using Cosine-Wave Comparator Scheme

#### Features:

#### The board consists of the following built-in parts:

- 6VAC at 100mA, AC Power Supply
- $\pm 12V$  DC at 100mA fixed regulated Power Supply
- Six Op-Amps IC
- Triple, 3 input AND gate IC
- Four NPN Transistor
- Two Potentiometer
- Two Pulse Transformer 1:1:1
- Adequate no. of other Electronic Components
- Mains ON/OFF switch, Fuse and Jewel light
- The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains.
- Adequate no. of patch cords stackable 4 mm spring loaded plug length  $\frac{1}{2}$  meter
- Good Quality, reliable terminal/sockets are provided at appropriate places on panel for

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connections/ observation of waveforms

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

**Weight:**

- 4 Kg. (Approx.)

**Dimension:**

- W 412 x H 150 x D 310

**Other Apparatus Required:**

- Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)

**OPTIONAL:**

- Unit for above experiment to work as a load having
- Isolation Transformer 50 watt
- Lamp 40 watt \* SCR 400V 4A
- Mains ON/OFF switch, Fuse & Jewel light

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