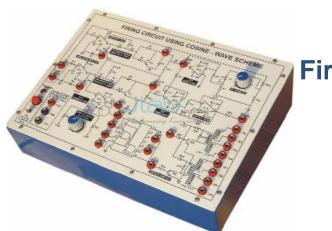


Jain Laboratory Instruments





Product Code . JL-PET-1436

Firing Circuit Using Cosine Wave Scheme

Description

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
- ±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 ±10% at 50Hz A.C. Mains.
- Adequate no. of patch cords stackable 4 mm spring loaded plug length 1/2 meter
- Good Quality, reliable terminal/sockets are provided at appropriate places on panel for

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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