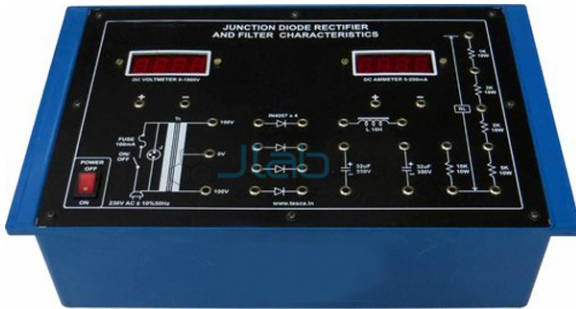


Product Code . JL-AET-1468

Junction Diode Rectifier and Filter



Description

Training Board for Junction Diode Rectifier and Filter

Object:-

Study of Junction Diode Rectifier output and ripple content for different resistive loads for:-

- Half wave
- Full wave (Centre Tap)
- Full wave (Bridge)
- Voltage Double Circuit

Study of filter and load regulation characteristics for half wave and full wave rectifier having different resistive loads and filters of the type:-

- Capacitor filter
- Capacitor Filter with capacitor value doubled
- Inductor filter
- Capacitor input L section filter
- Capacitor input p section filter

Features:-

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

- Mains transformer, secondary centre tap 100-0-100V at 100mA
- Digital Voltmeter DC $3\frac{1}{2}$ Digit having range of 1000V
- Digital Current meter DC $3\frac{1}{2}$ Digit having range of 200mA

-
- Four Silicon Junction Diodes
 - Filter choke
 - Adequate no. of other electronic components
 - Mains ON/OFF switch, Fuse and Jewel light
 - The unit is operative on 230V $\pm 10\%$ at 50Hz AC Mains
 - Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length $\frac{1}{2}$ 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 and Theory
 - Design procedures, Report Suggestions and Book References

Other Apparatus Required:-

- A.C. Millivoltmeter

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