



Power Electronic Training Board has been designed specifically for study of the Single Phase Series Inverter.

Practical experience on this board carries great educative value for Science and Engineering Students.

Object:

To study the Single Phase Series Inverter.

Features:

The board consists of the following built-in parts:

01. 12V DC at 100mA fixed regulated Power Supply.
 02. Bridge rectifier for making DC voltage.
 03. Hex Inverter IC.
 04. Quad, 2-input AND gate IC.
 05. Two Silicon Controlled Rectifiers (SCR's).
 06. Two Pulse transformer 1:1.
 07. Potentiometer for inverter frequency controller.
 08. Center taped Inductor.
 09. Two NPN transistor.
 10. Adequate no. of other Electronic Components.
 11. 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 $\frac{1}{2}$ metre.
 - * 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.

Other Apparatus Required:

- * Dual Trace Cathode Ray Oscilloscope 20MHz (Unearthed)

Note: Specifications are subject to change.

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