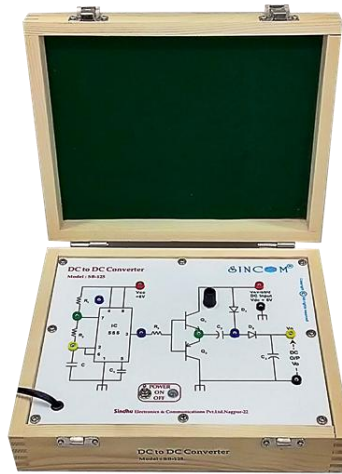


DC-DC Converter

Model : SB-125



SINCOM SB-125 DC-DC Converter is very useful simply designed trainer to study the operation of a DC low voltage to DC High Voltage Converter circuit in a simple experimental way. The Trainer is without meters and has the facility to connect the external analog or digital Voltmeter and Ammeter in the circuit.

Features

- ❖ User friendly Design
- ❖ IC555 as a adjustable high switching frequency generator
- ❖ NPN, PNP, Diode and Capacitor based DC-DC Converter circuit
- ❖ Adjustable Switching Frequency
- ❖ Fixed Low DC Input Voltage
- ❖ Variable Output DC Voltage
- ❖ In-Built Regulated DC Power Supply
- ❖ Very Easy for Operation
- ❖ Multi color Circuit Diagram is screen printed on the front of the white color acrylic board
- ❖ Enclosed in an attractive, light weight, High Quality, Poly Coated Imported Pine Wooden cabinet
- ❖ Facility to connect external Digital/Analog Voltmeter and Ammeter
- ❖ Interconnections by 2mm high quality banana sockets and pins
- ❖ Maximum Test points to explore all the corners of experiment
- ❖ 1 Year Warranty

Technical Specifications

- | | |
|-----------------------------|---|
| ▪ AC Mains Power Supply | : 230V \pm 10%, 50Hz |
| ▪ DC Power Supply | : IC Regulated +6V/500mA |
| ▪ DC Input Supply | : +6V DC |
| ▪ DC Output Voltage V_o | : Adjustable between 6V to 12V DC |
| ▪ Output Voltage Control by | : 100K Ω Potentiometer |
| ▪ High Frequency generator | : IC 555 based Square wave high frequency generator |



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- | | |
|-------------------------|--|
| ▪ Switching Frequency | : Variable 1KHz- 100KHz |
| ▪ Switching Device | : One NPN CL100 and One PNP CK100 Transistor |
| ▪ Rectifier Used | : Two Diodes based Rectifier |
| ▪ Filter Used | : Two Capacitor Filter |
| ▪ Weight | : 2.0 kg (approx) |
| ▪ Dimensions (mm) | : L 220 x W 270 x H 110 |
| ▪ Interconnections | : 2mm Banana sockets |
| ▪ Operating Temperature | : 0-50 ⁰ C, 80% RH |

Learning Scope

- To Study the Operation of DC to DC Converter Circuit.
- To Observe & Note the DC O/P Voltage w.r.t. applied DC I/P Voltage.

Other Instruments Required

SINCOM Digital V V meter (DVV) : Model DVV-01 Range V₁-20V, V₂-20V DC

Accessories Included : Set of Patch Cord and Details Instruction Manual