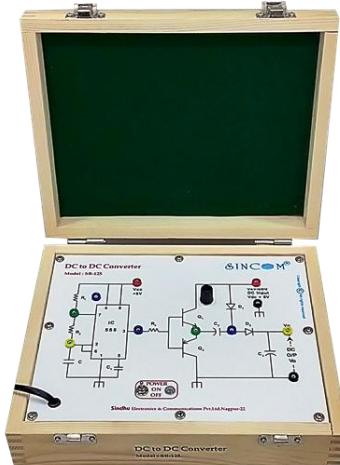


## DC-DC Converter

**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 Vo      | : Adjustable between 6V to 12V DC                   |
| ▪ Output Voltage Control by | : 100K $\Omega$ Potentiometer                       |
| ▪ High Frequency generator  | : IC 555 based Square wave high frequency generator |



An ISO 9001:2015 Co.

▪ 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°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 V<sub>1</sub>-20V, V<sub>2</sub>-20V DC

**Accessories Included :** Set of Patch Cord and Details Instruction Manual