



46605 Single Phase Bridge Converter Drive is an Elite Training System for Power Electronic Lab to demonstrate the operational functioning of Single Phase Bridge Converter. It includes experiment such as speed control of DC Motor by using full wave SCR configuration. It helps students to know how to generate firing pulses for single phase converter using ramp comparator scheme.

46605 is equipped with SCR firing control circuit that deals with triggering, modulation and instrumentation which derives the operating characteristics and capabilities of Converter. It incorporates all the necessary test points in order to explain the gate circuit by analyzing gate waveforms at different blocks through inbuilt Power Scope. Separate terminals of armature and field winding are provided to operate the machine in either of the excitation mode.

Features

- Power Scope for isolation measurement
- Provided with DC Shunt Motor
- High quality meters
- Three Phase low voltage Supply for gate circuit
- Three Phase Firing Circuit provided with pulse isolation
- Test terminals provided to analyze the waveforms
- Designed by considering all the safety precautions
- Diagrammatic representation of circuits
- Learning material CD
- 2 Year Warranty

Scope of Learning

- Study of Ramp Comparator Firing Circuit for Drive
- Study of Single Phase Bridge Converter Drive

Technical Specifications

Mains Supply	: 230V \pm 10%, 50Hz
Motor Specification	
Type	: DC Shunt Motor
Rating	: 0.5HP
RPM	: 1500
Power Scope	: Isolated 1500Vmax
SCR Rating	: SCR TYN616, 600V/16A
Diode Rating	: 6A10, 1000V/6A
Firing Angle Control	: 30° to 180°
Analog Meter	
DC Voltmeter	: 300V
DC Ammeter	: 5A
Single Phase MCB	: 2A (SPN)
Dimensions (mm)	: W 600 x D 450 x H 600 (panel) W 180 x D 350 x H 310 (motor)
Weight	
Panel	: 18kg (approximate)
Motor	: 23kg (approximate)

Note: Specifications are subject to change.

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