



**46940** Single Phase Cycloconverter is a platform which is very useful for Students to understand the concept of Thyristor firing method & working of single phase cycloconverter on various load configurations. 46940 is provided with inbuilt AC/DC power supplies & exhaustive learning material.

### Features

1. Built in Power Supply
2. Easy to operate and understand
3. On board firing circuits
4. Gradual firing angle control upto  $180^\circ$
5. Test points to observe output of different blocks
6. Sockets for making interconnections

### Object

Study of:

1. Study firing circuit of single-phase cycloconverter.
2. Study s ingle phase mid - point cycloconverter with resistive and inductive load.

### Technical Specifications

On board firing circuits	:	Ramp comparator firing scheme
Interconnections	:	2mm sockets
Firing angle variation	:	Gradual variation from 0 to 180 degree
SCR assembly	:	4 SCRs 2P4M, 400V/2A
Pulse transformer	:	PT4503 , 1:1:1
Mains Supply	:	220V/110V, 50 Hz / 60 Hz
Load	:	Resistance-279E, 5W
Test points	:	9 nos
Dimensions (mm)	:	W 420 x D 255 x H 100
Weight	:	1 Kg. (approximately)
Operating Conditions	:	0-40oC, 85% RH
Included Accessories	:	2mm Patch cords (blue) 16"-5 nos. Mains cord-1 no.

### Optional :

1. Simtel Power Electronics Simulation Software

Note: Specifications are subject to change.