



**Sciencetech 2713** 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. 2713 is provided with inbuilt AC/DC power supplies & exhaustive learning material.

## Features

- Built in Power Supply
- Easy to operate and understand
- On board firing circuits
- Gradual firing angle control upto 180°
- Test points to observe output of different blocks
- Sockets for making interconnections

## Scope of Learning

- Study firing circuit of single-phase cycloconverter.
- Study single 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

**Product Tutorial** : Online on

**Dimensions (mm)** : W 420 x D 255 x H 100

**Weight** : 1 Kg. (approximately)

**Operating Conditions** : 0-40°C, 85% RH

**Included Accessories** : 2mm Patch cords (blue) 16"- 5 nos.  
Mains cord-1 no.

**Optional :**

Simtel Power Electronics Simulation Software