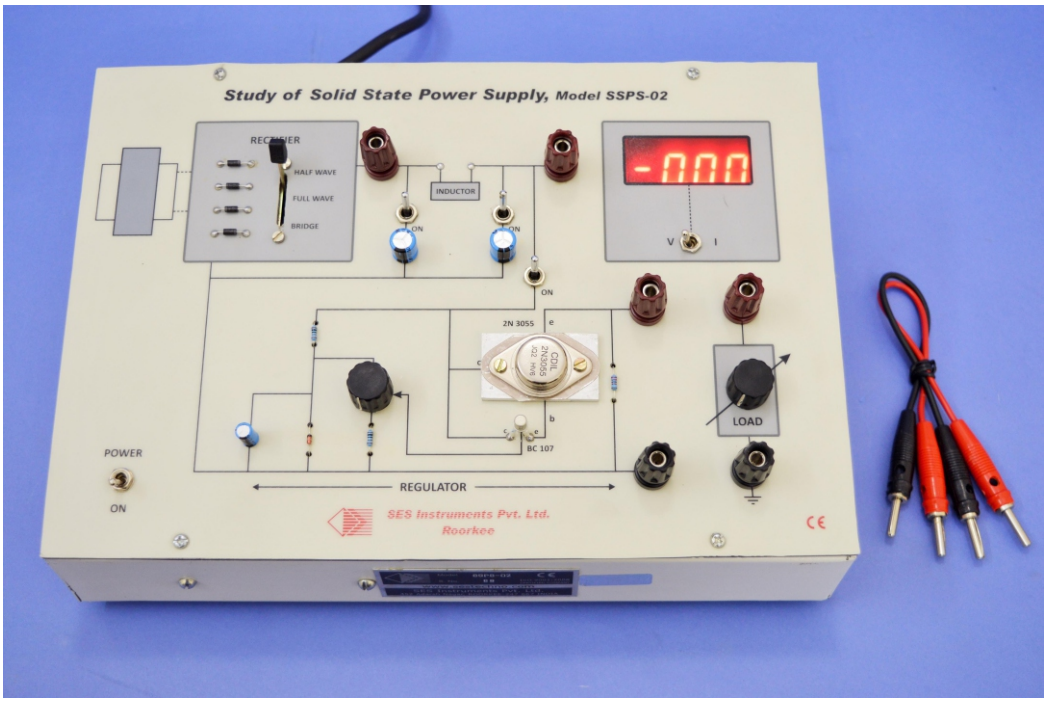
SSPS-02

Study of a Power Supply (Solid State)



Features

1. Study of rectification
   (a) Full wave rectification
   (b) Half wave rectification
   (c) Bridge rectification
2. Study of ac component (Ripples)
   (a) Efficiency of various type of filters L, π, T type etc.
   (b) The effect of load
   (c) The effect of regulation
3. Regulation characteristics
   (a) The effect of load on regulation
   (b) The effect of change in main's voltage
4. Electronic Load
   To draw the load current smoothly

Introduction

The Set-up consists of a step-down transformer, a rectifier circuit (can be used as a half-wave or a full-wave rectifier), a filter circuit (an inductance and two capacitors) - the arrangement can be used for the study of various configuration of filters and a regulator circuit. A built-in electronic load is used to smoothly vary the load current while a digital panel meter on the board measures the load current and load voltage.

Specifications

Output	:	0-12 volts
Max. Current	:	200 mA
Regulation	:	1%
Metering	:	Output Voltage/ Current on the switchable DPM

The experimental set-up is complete in all respect, except a Multimeter and a CRO

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