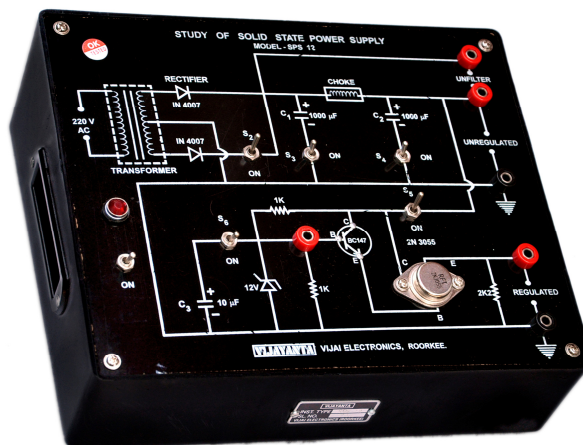


## STUDY OF POWER SUPPLY, (SOLID STATE)

MODEL : SPS - 12.



### DESCRIPTION

This set-up consists of step down transformer a rectifier circuits. Which can be used as a half wave or full wave rectifier, a filter circuit with an inductance and two capacitors, This arrangement can be used for the study of various configuration of filter and regulation circuits.

- Weight : 2 Kg Approximately
- Dimension : 210mm × 280mm × 82mm

The following studies can be carried out with this set – up :

1. Study of Rectification : (a) Full – Wave Rectification.  
(b) Half – Wave Rectification.
2. Study of Filters : (a) Efficiency of various type of Filters -  $\pi$ ,  
(Ripple) T – Type etc.  
(b) The Effect of Load.  
(c) The Effect of Regulation.
3. Study of Rectification : (a) The Effect of Load on regulation.  
(b) The Effect of Change in mains voltage.

### BRIEF SPECIFICATIONS :

OUTPUT	:	0 – 12, Volts.
MAX. CURRENT	:	200, m Amp.
REGULATION	:	1%.

### OTHER APPARATUS REQUIRED :

1. Digital Multi meter.
2. Rheostat, Range : 1000 ohm, 0.5 Amp.
3. Single Phase, Variable Auto Transformer (Variac), Enclosed, Capacity: 4 Amp.

*Note: There may be any change in specification due to continuous R & D without notice.*

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