



Alternators are the Power Generation Devices, converting mechanical energy into Electrical Energy, The electricity provided by our utilities is from some Power Generation center where an Heavy Alternator is the device producing Electricity .

Alternators have a design with wound rotor & wound stator, Alternators available are with slipping holders & also Brushless types.

Students can make connections of their own with the help of the terminations provided for study of features viz Single phase generation, 3Phase Generation, Regulation with change in Load, Effect of change of speed on output voltage, Effects of Field voltage excitation change.

Technical Specs :

Power ratings available :

350W / 750W / 1KW / 2 KW / 3KW / 5KW

Voltage output: 220/440V AC

Separate/Self Excitation : 220V DC

RPM: 1500 / 3000 RPM

Single / Double shaft extension, SPDP, IP23, IC01, B3, Class-B, S1, Solid yoke

List Of Experiments :

- 1) Regulation of Alternator
- 2) Effect of change of Speed on Output voltage
- 3) Change of Voltage with Excitation control
- 4) Voltage-Speed Analysis
- 5) Efficiency Analysis
- 6) Cold Resistance & Hot Resistance
- 7) Alternator parameters
- 8) Basic Overhauling Know how

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in