

**SHUNT MOTOR SERIES  
GENERATOR LAB  
OMEGA TYPE - 20 115**

**OMEGA TYPE-20115** Shunt Motor Series Generator Lab is an elite training system for the Electrical laboratories. This product helps students to understand basic operations of DC Series Generator. It can aptly be used for performing various experiments like Working of Generator, Analysis of Magnetic Characteristic and also efficiency at any desired load. Separate terminals of armature and field windings are provided on top of the machine. Rheostat terminals are provided on the panel so that this can be connected externally to the circuit. The product thus provides complete understanding of experiments with Shunt Motor and Series Generator.

**FEATURES:**

- 01 Specially designed safety sockets
- 02 Electrical loading arrangement
- 03 Designed by considering all safety precautions
- 04 Diagrammatic representation

**OBJECT:**

- 01 Study and verify the No-Load Characteristic of DC Series Generator
- 02 Study and verify the Load Characteristic of DC Series Generator

**TECHNICAL SPECIFICATION:**

**01 DC Power Supply Required**

Input Mains : 230V AC  $\pm$ 10%, 50Hz  
 Fixed DC output : 200V  
 Variable DC output : 0-200V

**02 Motor Specifications**

Both the Motor are flexibly coupled and mounted on a "C" Channel base

**03 DC Motor (acts as prime mover)**

Type : Shunt  
 Rating : 1HP  
 Voltage Rating : 200V  
 Speed : 1500 RPM (no load)  
 Insulation : Class 'B'

**04 DC Generator**

Type : Series  
 Rating : 600W  
 Speed : 1500 RPM (no load)  
 Insulation : Class B

**05 Digital Meters 3½ digit used**

DC Voltmeter : 300V (2 Nos.)  
 DC Ammeter : 5A (2 Nos.)  
 DC Ammeter : 2A

**06 Dimensions (C.Pnl.) : L 600 x H450 x D350 mm**

**07 Dimension (MG-set) : L900 x H310 x D 180mm**

**08 Weight (C.Pnl.) : 12Kg (Approx)**

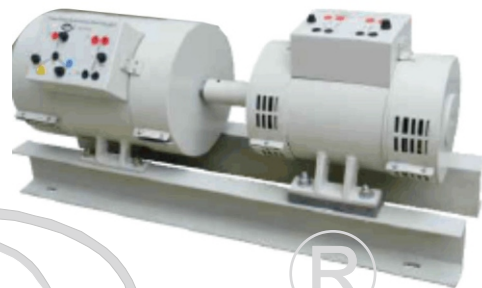
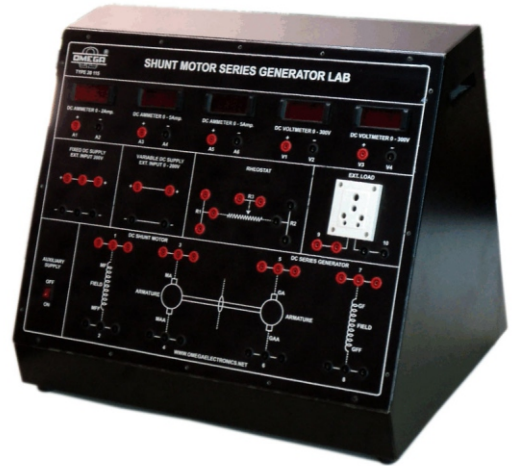
**09 Weight (MG-set) : 48Kg (Approx)**

**LIST OF ACCESSORIES:**

- 01 Shrouded Patch cord 4mm length 50/100cm--- 31
- 02 Digital Techometer-----01

**OTHER APPARATUS REQUIRED:**

- 01 DC Power Supply OMEGA TYPE 20 201.
- 02 Resistive Load OMEGA TYPE 20 202.
- 03 Rheostat 110 $\Omega$ , 5Amp.



We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

**OMEGA ELECTRONICS**

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