

**COMPOUND MOTOR  
COMPOUND GENERATOR LAB  
OMEGA TYPE 20 117**

**OMEGA TYPE 20 117** Compound Motor Compound Generator Lab is a useful training system for Electrical laboratories that provides comprehensive learning of DC Compound Generator. It can be employed for performing various experiments like Generator Working, Operating Characteristics, Terminal Voltage and Load Current (V-I) Characteristics, etc. Students can make connections easily.

**FEATURES:**

- 01 Electrical loading arrangement
- 02 Flexible shaft coupling arrangement
- 03 Provided with Digital Tachometer
- 04 Machine with Class "B" Insulation
- 05 Heavy Duty Base/Channel
- 06 Terminals provided to use the optional externally
- 07 Designed by considering all the safety standards
- 08 Diagrammatic representation for the ease of connections
- 09 Exclusive and Compact Design

**OBJECTS:**

- 01 Study and verify the Load Characteristics of Long Shunt Cumulatively Compound Generator
- 02 Study and verify the Load Characteristics of Short Shunt Cumulatively Compound Generator
- 03 Study and verify the Load Characteristics of Long Shunt Differentially Compound Generator
- 04 Study and verify the Load Characteristics of Short Shunt Differentially Compound Generator

**TECHNICAL SPECIFICATION:**

**01 DC Power Supply Required**

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

**02 Motor Specification**

Both the Motor are flexibly coupled and Mounted on a 'C' channel Base



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

- Type : Compound
- Rating : 1HP
- Voltage Rating : 200V
- Speed : 1500 RPM
- Insulation : Class 'B'

**04 DC Machine (acts as generator)**

- Type : Compound
- Rating : 600W
- Speed : 1500 RPM
- Insulation : Class 'B'

**05 Digital Meters 3½ digit used**

- DC Voltmeter : 300V (3 Nos.)
- DC Ammeter : 5A (3 Nos.)

- 06 Dimensions C.Pnl. : L600 x H450 x D350mm
- Dimension MG set : L600 x H350 x D200mm

- 07 Weight C-Panel : 13kg (approximate)
- Weight MG-Set : 48kg (approximate)

**LIST OF ACCESSORIES:**

- 01 Shrouded Patch cord 4mm length 50CM RED....10
- 01 Shrouded Patch cord 4mm length 50CM BLK.....10
- 01 Shrouded Patch cord 4mm length 100CM RED...07
- 01 Shrouded Patch cord 4mm length 100 CM BLK...07
- 01 Digital Tachometer ..... 01

**OTHER APPARATUS REQUIRED:**

- 01 DC Power Supply OMEGA TYPE -20 201.
- 02 Resistive Load OMEGA TYPE -20 202.

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

**OMEGA ELECTRONICS**