

D.C. Compound Generator with control panel

Technical Specifications

1. D.C. Compound Generator with control panel including fitted rheostat, voltmeter, ammeter and breaker D.C. Compound Generator with control panel including fitted rheostat, voltmeter, ammeter and breaker, 2.5 KW, 220V & 3phase Squirrel cage Induction Motor, 5HP, 440V, with control panel & star delta starter
2. Consists of a Panel Closed type with front panel MS power coated sheet with screen print and with table
3. Panel size 2ft height x 4ft width x 300mm depth.
4. 1 Phase Auto Transformer 2A with Diode Bridge for separate excitation.
5. Star Delta Starter Automatic 5HP 01
6. Digital Voltmeter-500 Volts AC-1no.
7. Digital Ammeter 20Amps AC-1no.
8. Digital Voltmeter--500 Volts DC-1no.
9. Digital Ammeter--20Amps DC-1no.
10. Digital Ammeter--5Amps DC-1no.
11. Digital Tachometer-1no.
12. MCB and Fuse Protection
13. Neon Indications LED.
14. BTI 30 Terminals for connections.
15. DC Resistive load bank (2.5KW)-01no.
16. User Manuals & Patch cords.
17. DC Regulated Power Supply with table Input Mains: 230VAC $\pm 10\%$, 50Hz DC Output Voltage Fixed: 220V $\pm 10\%$, 2A Variable: 0-220V $\pm 10\%$, 12A Digital Voltmeter: 300V Digital Ammeter: 20A Single Phase MCB : 16A



Tentative Image Subject to change

Classroom/ laboratory Teaching, Learning and Simulation Content:

The content has easy explanation of various complex topics with animation and simulation for ease of student learning. It should also support learning through videos, graphs, charts, along with mandatory rich content and theory to understand fundamental concepts, interactive learning objects, FAQ, MCQ etc. The content is supply either the digital online access or license protection should be supported through USB hardware dongle.

Basic Electronics & Electrical Analog and Digital Electronic to understand fundamental concept of Atom, Charge, Introduction to Electricity, DC and AC Sources of Electricity, Electronic Components, Series and Parallel Circuits, Voltage Divider and Current Divider Circuit, Circuit Analysis: Ohm's Law, Kirchhffs Law, Loop and Mesh Analysis, Star and Delta Network, Network Theorems: Thevenin's, Norton's, Superposition, Maximum Power Transfer, Millman's, Reciprocity, Magnetism, Electromagnetism, Alternating Current Circuits, Transformer, Rectifier, Filter, Semiconductor Devices: Diode, BJT, **FET**, Operational Amplifier, Power Amplifier, Thyristor Family, Measuring Instruments: Oscilloscope, Multimeter with simulations, animations, theory, multiple choice questions, notes and question bank.