



### Features

- Easy and safe wiring by students due to 4mm sturdy shrouded banana patch cords and shrouded socket arrangement for high voltage circuits.
- Facilitates easy learning about operative characteristics of BLDC motor.
- Each panel has ABS molded plastic sturdy enclosure, and colorful screw less overlays showing circuit diagram & its connection tag numbers for easy understanding and connections.
- Set of Instructor Guide & Student Workbook.

### Technical Specifications

Powder coated Aluminum Profile Sturdy Modular Flat panel (table top) system, carrying various voltage components housed in plastic enclosures (panel).

Instrumentation Power supply cum Multichannel DPM panel.

- +5V, 300mA
- Multi channel DPM for digital display for speed

#### BLDC-1 panel

- 24VDC/3A(8A optional) power supply for BLDC motor
- Speed display DPM

#### BLDC-2 panel

- BLDC controller circuit.
- Tacho output.

#### BLDC-3 panel

- Forward/reverse switch.
- Brake switch
- Test points for PWM outputs
- Speed control Pot.

Note: Specifications are subject to change.

#### BLDC-4 panel

- Voltmeter : 0-30 V DC
- Ammeter : 0-10 A DC
- Circuit Breaker
- Brush less DC motor
- Voltage: 24VDC
- Wattage:200W
- Max Speed: 2500RPM.
- Frame: 34, panel mounted
- Bidirectional
- Braking system
- Chasis mounted provided with spring balance loading arrangement.

#### List of Experiments :

1. To study of speed vs Load characteristics with loading arrangement.
2. To study Speed vs load vs current vs voltage measurements with loading arrangements.

#### Mechanical specifications of Trainer :

- **Aluminum rack** : 4 x 1 matrix used as flat demo panel system to house panels needed for the trainer ordered.
- **Dimensions** : 960(L) x 300(W) x 545 (H) mm
- **Net Weight** : 20 Kg. Gross Weight : 31 Kg.
- **BLDC Motor Net Wt.** : 8 kg. Gross Wt. : 11 kg.