



WIND SIMULATOR TRAINER is a userfriendly renewable energy training system for the Electrical laboratories mounted on two separate Aluminum profile racks consisting of sturdy table top flat panels. Each panel is enclosed in sturdy ABS plastic enclosure. For easy understanding, circuit diagram & its connection tag numbers are provided on the panel. All interconnections are through 4mm shrouded connectors. The product helps you to get fully acquainted with the basic concepts and functioning of a Solar system

TECHNICAL SPECIFICATION

Panel-1

- 100W Wind 3 phase Alternator with 6 blades mounted in MS Sturdy structure.
- Alternator Output Voltage of 12V, 8A at 500rpm.
- RPM Sensor provided for speed sensing.
- AC Motor for Wind Simulator

Panel-2

Control panel is a 30X30mm Aluminum profile rack with sturdy table top flat panels.

- Digital DC meter panel x2nos
 - Measure Voltage, Current, Power
 - 0-300V DC Voltmeter range
 - 0-10A DC Ammeter range
 - RS485 modbus protocol
- Single phase multifunction meter panel
 - LED display, Aux supply 230V, 45-65 Hz, 5W
 - V, A, Hz, Pf, KW
 - RS485 modbus protocol
- Single Phase Energy meter panel
 - LED display, Aux supply 230V, 45-65 Hz, 5W
 - RS485 modbus protocol
- DC Circuit breaker Panel x 2nos
 - 2 Pole MCB, 16A with Led Indicator x2nox

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.



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- 9A Contactor with 24V DC Coil x2nos
- Load Socket Panel:
 - 2 No's of E27 Lamp Socket.
 - 2 No's of 1Ø AC Electrical Socket.
- Data Acquisition Panel
 - RS-485 Port for Meter
 - 16x2 LCD display
 - RS232 based communication with PC

WIND RENEWABLE ENERGY TRAINER

- AC Drive Panel
 - 2hp AC Drive Panel
 - 500V AC Voltmeter
 - 5A AC Ammeter
- 3 Phase AC Supply Panel
 - 4 Pole 16A MCB
 - 9A 3 pole contactor
 - Over Load Thermal Relay
- Circuit Breaker & Rectifier Panel
 - 3 Pole 3 Phase MCB 415 V/16A.
 - 3 Phase DC Rectifier.
- AC Circuit breaker Panel
 - 2 Pole MCB, 16A with Led Indicator x2nox
 - 9A Contactor with 24V DC Coil x2nos
- OFF Grid Inverter
 - 1KW Micro-Controller Based Intelligent Control Design.
 - Smart MPPT Charging.
 - LCD Display Indications (Status & Fault).
 - Mains Input Voltage Range Selection.
 - Charging Voltage Selection Switch.
 - Grid Charging Enable /Disable Selection.
 - Pure Sine wave Regulated Output
- Accessories Supplied
 - 12V, 100Ah Battery
 - Anemometer
 - 4mm Shrouded Patch Chords
- Accessories Optional

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- AC Distribution Box
- DC Distribution Box
- Lightning arrester

Note:-This is a standard Model..All the specs will be customized with 100% compliance on this trainer



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