



WIND ENERGY TRAINING SYSTEM (VERTICAL TYPE)

Product Overview

The Wind Energy Training System (Vertical Type) is an educational and demonstrative setup designed to study and understand the working principles of wind energy conversion. It effectively showcases how wind kinetic energy is transformed into mechanical and subsequently into electrical energy. The system functions as a live demonstration unit of a vertical wind turbine and generator with an independent wind energy AC output system.

Features

- Demonstrates the basic concept of a vertical type wind turbine.
- Converts wind kinetic energy → mechanical energy → electrical energy.
- Works as a live demonstration unit of wind turbine and generator.
- Independent Wind Energy AC output system.
- Shows no-load voltage of wind turbine.
- Demonstrates relation between wind velocity and turbine output.

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



Export Sales: +91-9829132777
 India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,
 Sitapura Extension, Jaipur-302022, India.



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Technical Specifications

Installed Components

- Vertical Wind Turbine Installed
- AC 3 ϕ Motor Installed
- AC Motor Driver Installed
- AC to DC Converter Installed
- Voltmeter Installed
- Ammeter Installed
- RPM Meter Installed
- MPPT Charge Controller Installed
- Inverter Installed

List of Modules

1. Wind Turbine Module (Vertical)
2. Charge Controller Module
3. Wind Turbine Driver
4. Inverter Module (Off-Grid)
5. Measuring Module with RPM
6. Battery – 12V (24V on demand)
7. Set of Cables
8. Frame

Software

- DAQ system includes Software and set of electronic sensors for data acquisition.

Experiments

- Performance analysis of vertical wind turbine.
- Relation between wind velocity and turbine output.
- Study of AC & DC power conversion.
- Testing of MPPT charge controller and inverter operation.

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