

# 300W WIND POWER TRAINER RE201

The 300W Wind Power Trainer is an educational tool designed to teach users about wind energy generation and system integration. It features a 300-watt wind turbine, along with components for energy storage and monitoring. This trainer allows hands-on experimentation with wind power technology, including installation, performance analysis, and energy management. Ideal for students, educators, and renewable energy enthusiasts, it provides a practical understanding of how wind energy systems operate and their role in sustainable energy solutions.

## Able to learn : -

- Characteristic of wind power generator
- Understand the wind power system diagram and connection
- Physical principle of wind power transformation into electrical power
- Study of brushless generator
- Calculation of average generated power
- Analysis, size and installation of wind power system
- Charging battery bank
- Measure of energy flow
- Maintenance of wind power generator



## Required Item : -

- Wind Power training structure
- Wind generator
- Wind power inverter controller
- SLA battery
- DC/AC power inverter
- Axia blower fan
- Motor inverter unit
- Electronic controller
- AC power supply panel
- ACDC Multimeter
- Computer laptop



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### Technical Specification : -

No	Component	Qty
1	300W Horizontal Wind Turbine	1
2	Wind Turbine Controller	1
3	Blower Structure	1
4	Inverter Unit	1
5	750w induction motor	1
6	Blower Fan unit	1
7	DC MCB	1
8	DC AC Inverter unit	1
9	100A 24V Battery Bank	1
10	Wind Turbine structure	1
11	Wind Speed Tachometer	1
12	AC DC Multimeter	1