



WIND POWER PLANT TRAINER OFF-GRID



This image is for illustrative purposes only

DL HC-WIND-OG-ET

The Wind Power Plant Trainer Off-Grid is a practical learning system that demonstrates how wind energy can be converted into electricity independently from the grid.

With its horizontal-axis turbine, control interface, and storage unit, it gives students a clear, hands-on view of real wind power behavior.

Designed for educational environments, it offers an intuitive way to understand stand-alone wind generation and its performance under different conditions.

The **EasyTech – Renewable Energies product line** is designed as an entry-level solution that allows students, technicians, and new users to explore energy generation and management technologies in a practical, accessible, and safe way, all integrated into compact, didactic platforms built for progressive learning. Each **EasyTech product line** is engineered to provide an intuitive, modular, and flexible experience, helping users understand the essential principles and preparing them to advance toward more complex systems.

Technical Specifications - System configuration: Standalone (Isolated from the Grid).

- Horizontal axis wind power generator
 - Rated power: 100W
 - Rated voltage: 12Vdc
 - Generator: Three phase AC permanent magnet synchronous generator
 - Simulated wind speed adjustable module
- Tabletop control panel
 - Charge controller
 - Rated voltage: 12 Vdc
 - Rated current: 10A
- Electric load: 12 Vdc lamp
- Multifunction instrument, microprocessor-based
- Buffer battery
 - Rated voltage: 12 Vdc
 - Capacity: 12 Ah

Training Program

- Components of a stand-alone wind power system for electricity production.
- Effect of the wind speed on the generator output voltage.
- Wind generator energy conversion efficiency.