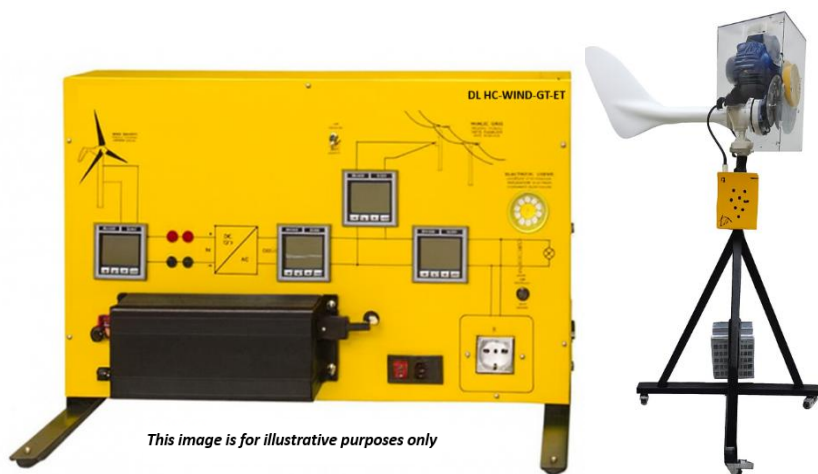




WIND POWER PLANT TRAINER ON-GRID



DL HC-WIND-GT-ET

The Wind Power Plant Trainer On-Grid provides a clear and practical way to understand how wind energy can be fed directly into the public grid. With its horizontal-axis generator, grid-tie inverter, and integrated control interface, it allows students to observe real grid-connected wind behavior in a hands-on setting.

Designed for educational environments, it offers an intuitive introduction to renewable generation and the fundamentals of AC power conversion.

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: Grid-connected

- 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
 - Grid tie power inverter
 - Rated AC Output Power: 150 W
 - AC Output Voltage: 230 V
 - AC Output Frequency: 50 Hz
 - DC Input Voltage Range: $10.8 \div 30V$
 - Output Current Waveform: Pure Sinewave
 - Protection: Over Current, Over Temperature, Reverse Polarity, Anti-Island
- Electric load: 230 Vac lamp
- Socket for output
- Multifunction instrument, microprocessor-based

Training Program

- The combined on-grid wind system for electricity production
- Effect of the wind speed on the generator output voltage
- Wind generator energy conversion efficiency
- Operation and efficiency of a DC/AC inverter

