

Product Name :
Wind and Solar Hybrid System

Product Code :
NLAB-ENGINEERINGLB43003



Description :

Wind and Solar Hybrid System

Technical Specification :

This Wind and Solar Hybrid System

is designed to demonstrate to students not only the working principle of basic wind generation system, but also simulation of a wind generation system for standalone or grid-connected operation.

This unit consists of:

- Wind turbine
- Blower fan
- Charge controller
- Battery
- DC-to-AC inverter

- Voltmeter and ammeter
- Load centre (AC and DC load)

Experimental capabilities:

- Functional and operating principles of wind power generation
- Determination of electrical conversion efficiency relative to wind power
- Measurement of wind turbine power output characteristics under load
- Measurement of overall system performance under load
- Examination of battery charge management system
- Installation and testing of standalone inverter system in direct operation
- Installation and testing of standalone inverter in storage operation
- Installation and testing of standalone inverter for the 230 VAC voltage generation

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