

Product Name :
Wind Energy Modular Trainer

Product Code :
NLAB-ENGINEERINGLB29004



Description :

Wind Energy Modular Trainer

Technical Specification :

Wind Energy Modular Trainer

Training Objectives of Wind Energy Modular Trainer

Identification of the components

Installation and testing of the wind turbine

Installation and testing of the anemometer

Connecting the wind turbine and the anemometer to the trainer

Battery regulating and charging

Direct current wind energy installation

Alternating current wind energy installation

Complete system for wind energy

Technical Specifications of Wind Energy Modular Trainer

A wind turbine, 160W, 12V.

Anemometer and wind direction sensor mounted on a stand.

A supporting frame for the modules.

A battery.

A battery control module, 12V, 32A.

A load module. It includes two 12V lamps, dichroic 20W and LED 3W, with independent switches.

A load module. It includes two mains voltage lamps, dichroic 35W and LED 3W, with independent switches.

A module for the measurement of: wind speed (m/s), wind direction (degrees), current up to 30V, $\pm 15A$ (two dc ammeters), voltage up to 30V and power up to 1000W.

A dc to ac converter module, with sinusoidal output at mains voltage. Average power: 300 W

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