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Product Name :
Wind Energy Modular Trainer With Motor Drive For Indoor Use

Product Code :
LBNY-0005-18400023



Description :

Training Objectives:

Operating the wind turbine and the anemometer
Braking in the braking mode
Braking in the no load operation/open circuit/free spinning mode
Identification of the components
Installation and testing of the anemometer
Installation and testing of the wind turbine
Battery regulating and charging
Supplying AC load with wind power and a battery
Direct current wind energy installation
Supplying AC load with wind power stored in a battery
Complete system for wind energy.

Technical Specification :

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 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 dc to ac converter module, with sinusoidal output at mains voltage. Average power: 300 W.
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 step motor driving kit.



Laboratory Instrument India