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Product Name :
Wind Turbine Trainer Unit

Product Code :
LBNY-0005-1720002



Description :

Experimental Capabilities:

1. Plotting curves generator features:
Torque according to the generated current.
Active three-phase power based on the rotation speed.
Three-phase voltage according to the rotational speed.
Three-phase reactive power according to the rotation speed.
Voltage depending on the rotation speed.
DC power based on the rotation speed.
2. Study of wind generation operation and provision of energy to the network.
3. Plotting curves of performance: Electrical power to network / generator load.
4. Rectifier efficiency.
5. Determination of optimum operating points under changing wind conditions.
6. Calculation of torque / current and voltage / rotational speed.
7. Analysis of the energy fed into the grid.
8. Plotting power / speed curve.

Technical Specification :

Anodized aluminium structure
Single phase network analyser with indication of active, reactive and apparent power, current, voltage, frequency, power factor, etc.
Windmaster Inverter 500.
Frequency variator 1.5 kW.

Phase permanent magnet synchronous generator.
Asynchronous motor 1.5 kW.
Data acquisition system and PC.
Protection module for connection to the mains.



Laboratory Instrument India