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Product Name :
Energy Conversion In A Wind Power Plant

Product Code :
LBNY-0005-103000189



Description :

Axial fan with continuously variable speed (wind velocity)
Flow straightener for consistent wind conditions
Measurement of rotational speed of the rotor
Measurement of wind velocity in front of and behind the rotor
Measurement of current and voltage
Converting kinetic wind energy into electrical energy
Laboratory-scale wind power plant, stand-alone operation
Digital displays for the measured values
Accumulator for storing the electrical energy
Two bulbs as electrical load (consumers)
Generator for converting the kinetic energy into electrical energy.

Technical Specification :

Technical Data:

Axial fan
Max. power: 1,5kW
Max. volumetric flow rate: 5m/s
Rotor
Diameter: 510mm
Accumulator
Capacity: 8Ah
Voltage: 12VDC

Generator

Max. charging current: 5A

Max. output: 60W

Voltage: 12VDC

Electrical load (bulbs)

Power: 55W each

Voltage: 12VDC

Measuring ranges

Voltage: 0...20VDC

Current: 0...35A

Wind velocity: 0,3...50m/s

Speed: 0...3000min⁻¹.



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