

Product Name :
Energy Conversion in a Wind Power Plant

Product Code :
Fluid Equipments0015



Description :

Energy Conversion in a Wind Power Plant

Technical Specification :

Energy Conversion in a Wind Power Plant

Specification Of **Energy Conversion in a Wind Power Plan**

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

Technical Data

Axial fan

- Max. volumetric flow rate: 5m³/s
- Max. power: 1,5kW

Rotor

- Diameter: 510mm

Generator

- Max. output: 60W
- Voltage: 12VDC
- Max. charging current: 5A

Accumulator

- Voltage: 12VDC
- Capacity: 8Ah

Electrical load (bulbs)

- Voltage: 12VDC
- Power: 55W each

Measuring ranges

- Wind velocity: 0,3...50m/s
- Speed: 0...3000min-1
- Voltage: 0...20VDC
- Current: 0...35A

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