

Product Name :
Energy Conversion In A Wind Power Plant

Product Code :
DM446



Description :

Energy Conversion In A Wind Power Plant

Technical Specification :

Energy Conversion In A Wind Power Plant
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
Software for data acquisition via USB under Windows 7, 8,10,11
Axial fan
Volumetric flow rate: 5m³/s
Power: 1,5kw
Rotor $\varnothing$ 510mm
Generator output: 60W
Voltage: 12VDC charging current: 5A
Accumulator voltage: 12VDC

Capacity: 8Ah Electrical load (bulbs)
Voltage: 12VDC power: 55W each
Measuring ranges
Wind velocity: 0,3â€¦50m/s
Speed: 0â€¦3000min-1
Voltage: 0â€¦20vdc
Current: 0â€¦35a
400V, 50Hz, 3 phases
400V, 60Hz, 3 phases; 230V, 60Hz, 3 phases
Total weight: 380-320kg.

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