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WIND ENERGY SYSTEM TRAINER



PN:0306020080

Wind Energy System Trainer should be able to simulate the operation of a real wind energy harvest system which transforms wind kinetic energy into electrical power through a converter & generator. Wind energy system trainer can operate outdoors by wind turbine and indoors using a synchronous generator. Wind energy system trainer allows users to monitor, control and hands-on learning about the principles and operation of a wind energy harvest system.

Part	Specification
Magnet Wind Turbine	i, Maximum power :300W, ii, rated voltage: 12/24 V,

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	<p>iii,the wind wheel diameter: 0.8 m,</p> <p>iv,start wind speed: 1 m / s,</p> <p>v,wind speed: 35 m / s,</p> <p>vi, the number of blades: 6,</p> <p>vii,Blade Material Fiberglass.</p> <p>viii,Two sets, one of which is mounted outdoors and one is movable indoor</p>
Controller	i,battery charge and discharge management
Wind Force Prime Mover	<p>i,low noise axial fan,</p> <p>ii,rated speed: 2800r/min,</p> <p>iii,wind capacity: 11000m³ / h,</p> <p>iv,total pressure / hydrostatic: 320/220Pa, v,rated power :1.5KW.</p>
Photovoltaic Inverter	<p>i,Rated output power: 300W,</p> <p>ii,Input: DC12V,</p> <p>iii,Output: AC220V,</p> <p>iv,protection function.</p>
Battery	12V, 7AH
Testing Unit	<p>i,Aluminum color panel,</p> <p>ii,battery voltage,</p> <p>iii,the DC load voltage,</p> <p>iv,the DC load current,</p> <p>v,AC load voltage,</p> <p>vi,AC load current</p>
Load	<p>i,DC12VLED bulb,</p> <p>ii,DC12V fan,</p> <p>iii,AC220V bulb lamp,</p>

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	iv,AC22V fan.
Mobile Trolley	i,steel mobile trolley with swivel lockable castors, ii,Size: approx. 1300×700×1700mm
VVVF	i,VVVF of Simulation wind source
Industrial touch screen	i,Man-machine interface, ii,PLC control, iii,7-inch high-brightness TFT LCD, iv,wind generator output AC voltage display, v,speed, voltage, current, power generation data display and dynamic curves show. vi,Speed of wind turbines, speed of wind ,power of wind,generating capacity and others monitoring.
Wind yaw control system	i,The wind turbines achieve passive yaw windward by rudder to make a maximum power output. ii,Speedometer detect wind power of farm wind, when the wind exceeds the safe value, the crosswind yaw control working, and making rudder crosswind 45 ° to make the wind turbine blade speed slower. iii,Under excessive wind , the rudder crosswind 90 °, the wind turbine is braked.
Distribution Cabinet	i,Standard cabinet, size :750 * 500 * 1700mm, ii,surface spray, iii,transparent glass door cabinet with stainless steel mesh plate installation.