

Changsha Fanli Edusupports Co.,Limited

Add:No.137, Yuelu Street, Changsha City, 410000, Hunan, China

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Solar Photovoltaic System Trainer



PN:0306020090

Solar Photovoltaic System Trainer is designed to simulate the operation of solar photovoltaic system to transform solar energy into power electric through silicon cells. This Solar Photovoltaic System Trainer can operate under direct sunlight as well as to

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Non-carbon Energy Engineering

simulate the sunlight using electric lamp. The Solar Photovoltaic System Trainer allows students to monitor, control and hands-on learning about the principles and operation of a solar photovoltaic harvesting system.

Solar Photovoltaic System Trainer Specification

Part	Specification
Solar Panel	i, 10W*4, ii, two outdoor, and two indoor
Artificial light source	i, 2 pcs, ii, mounted on the bench iii, each 270W
Photovoltaic Controller	i, 12/24 VDC , 10A, ii, Dot matrix LCD display, iii, protection function
Photovoltaic Inverter	i, Rated output power 300W, ii, Input DC12V, iii, Output AC220V, iv, protection.
Battery	i, 12V, 7AH
Testing Unit	i, Aluminum color panel, ii, PV voltage, PV current, iii, battery voltage, iv, the DC load voltage, v, the DC load current, vi, AC load voltage, vii, AC load current

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Load	i,DC12VLED bulb, ii,DC12V fan, iii,AC220V bulb lamp, iv,AC22V fan.
Mobile Trolley	i,steel mobile trolley with swivel lockable castors , ii,Size: approx. 1300×700×1700mm
Solar Tracker	i,Dual-axis solar tracker
Industrial touch screen	i,Man-machine interface, ii,PLC control, iii,7-inch high-brightness TFT LCD display. iv,the parameters (current, voltage, power, photovoltaic power, etc.) of the solar panel unit, the controller unit, the inverter unit can be real-time monitored and displayed respectively. v,Overvoltage and overcurrent alarm function; vi,input voltage, current, power, data display, and dynamic curve shows; vii,output voltage, current, power, electricity consumption data display and dynamic curves show.
Sunlight Automatic simulation system	i,Level, pitching gearbox motor input DC12V, ii,single-phase AC motor gear lever iii,gear ratio: 1:300; iv,Voltage:AC220V。
Distribution Cabinet	i,Standard cabinet, size :750 * 500 * 1700mm, ii,surface spray, iii,transparent glass door cabinet with stainless steel mesh plate installation.

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