

Product

Practical Teaching and Training System of Solar Energy

Education & Training

Solar Photovoltaic Power Teaching Modules CE-0111 Simulation-Based Platform CE-0112 Protable Solar Power Learning System CE-0117



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Simulation-Based Platform For Solar Energy Teaching Practice

🦞 Curriculum Objectives

In order to achieve the goal of energy saving and carbon reduction, the development of teaching trainer of solar power systems and materials of alternative energy. In aprogressive manner of teaching, demonstrates configurations of standalone, parallel and hybrid (disaster type) simulation-based solar power systems, so that students can through simulation-based aids learning to have the ability to assemble the solar power system engineering.

♥ Curriculum Outline

Through the course content such as configurations of independent type, shunt type and hybrid type (disaster type) simulation-based solar power systems, students can understand the actual engineering architecture and assembly methods, after the training course have the ability to assemble solar power system engineering.





The best choice of solar power system for education and training

Simulation-Based Platform For Solar Energy Teaching Practice CE-0112

Concept Acknowledge

Types of Solar Modules

Chapter: Types of Solar Modules

Section 1: Understanding Solar Module

Section 2: Types of Solar Cells

Equipment Acknowledge

Chapter: Practice Units

Section 1: Understanding System Devices

Section 2: Practice of Energy Generation System of Single Solar Module

Experiment 1: Practice of DC Power Supply and Digital Instrumentation Features

Application System

Independent Power System

Experiment 2 : Practice of Load and Efficiency of Inverter of Independent Power System

Parallel generation system

Experiment 3: Practice of Load and Efficiency of Inverter of Parallel Power System

Hybrid Power Generation System

Experiment 4: Setting up a Small Power of Hybrid Power System

Monitoring Technology

Wired Monitoring

Experiment 5: Wired Monitoring (USB & RS-485)

- 5.1 Understanding the Setting of Interface and Data of Header
- 5.2 System Data Collection and Analysis
- 5.3 System Failure Alarm System

Wireless Monitoring

Experiment 6: Wireless Monitoring of ZigBee

- 6.1 Point to Point Wireless Communication of ZigBee
- 6.2 Wireless Network Analyzer
- 6.3 Measurements of Packets of Wireless Network Analyzer
- 6.4 System Data Collection and Analysis
- 6.5 System Failure Alarm System

Experiment 7: Wireless Monitoring of WiFi

- 7.1 WiFi How to Link to the District Network Wireless Communication
- 7.2 WiFi How to Read the Data of Header
- 7.3 System Data Collection and Analysis
- 7.4 System Failure Alarm System

Related Products:

- Solar Photovoltaic Power Teaching Modules (CE-0111)
- Protable Solar Power Learning System(CE-0117)
- Customized Solar Aids
- Related Import and Export Trade