USDidactic
Educational Equipment & Training Systems

EPH2 ADVANCED SOLAR PHOTOVOLTAICS TRAINER

This system is for investigating the design and operation of modern solar power plants. The training package enables project work to be carried out with commercial components.

The EPH2 Advanced Solar PV Trainer includes a rig to demonstrate realistic simulations of solar movements. Also, PV emulators are included to make it possible to carry out exercises inside the lab without the sun. The Interactive Lab Assistant with Multimedia Course helps instructors convey theoretical knowledge & practical applications while performing computer assisted evaluation of measured data.

Training Content:

- Testing the optimum alignment of solar modules
- Recording the characteristics of solar modules
- Investigating the module's response to shadow formation
- Investigating how bypass diodes operate
- Learning various types of wiring & connection configurations for PV modules
- Installation of PV systems
- Design and testing of a standalone PV systems in direct operation
- Design and testing of a standalone PV system in battery storage operation
- Design and testing of a standalone PV system with generation of AC voltage
- Learn Installation of PV systems
- Design and testing of PV systems with grid feed
- Measure generated power of a PV system
- Determine efficiency of the grid-connected inverter
- Investigate response of a PV system to grid outage

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