Grid-Tied Training System Simulation Software
(Add-On to Model 46120)
579795 (46120-A0)
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General Description
The Grid-Tied Training System Simulation Software is a comprehensive add-on to the Solar/Wind Energy Training System, Model 46120. The software expands on the knowledge acquired about solar and wind energy, and enables students to simulate the connection of the system to the ac power network, forming a grid-tied system.

Grid-tied systems generate electricity and send this energy back to the ac power network. The energy produced is subtracted from the energy consumed by the system (e.g., home energy consumption, business energy needs), thereby decreasing the amount of energy drawn from the power grid.

The Grid-Tied Training System Simulation Software simulates the installation and operation of a utility-interactive photovoltaic (PV) solar energy system in a residential home. The software comprises an Electrical Wiring Simulator and a Home Energy Simulator, and includes student manuals and instructor guides. Topic coverage includes:

• Commercial string inverters
• Installing a grid-tied photovoltaic solar power system
• Wiring and configuring alternative energy systems
• Smart-grid technology
• Remote data acquisition
• Power management techniques
• The NEC code as it applies to alternative energy installation in the United-States
• Installation requirements for solar and wind power systems in the continental United-States and its territories

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• 1 Grid-Connected Equipment
• 2 Utility-Interactive Software
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