



PHOTOVOLTAIC SYSTEM OFF-GRID



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The Photovoltaic System Off-Grid is a practical training solution that shows how solar energy can be captured and used independently from the electrical grid.

With its compact panel, control interface, and storage unit, it allows students to explore the full solar power cycle in a clear, hands-on way.

Designed for educational environments, it provides an intuitive experience to understand stand-alone solar systems and their real-world behavior.

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The **EasyTech – Renewable Energies product line** is designed as an entry-level solution that allows students, technicians, and new users to explore energy generation and management technologies in a practical, accessible, and safe way, all integrated into compact, didactic platforms built for progressive learning. Each **EasyTech product line** is engineered to provide an intuitive, modular, and flexible experience, helping users understand the essential principles and preparing them to advance toward more complex systems.

Technical Specifications - System configuration: Standalone (Isolated from the Grid).

- Silicon cell photovoltaic panel
- Adjustable tilt tabletop aluminum frame
- 80 W photovoltaic panel
- Tabletop control panel
- Charge controller
- Rated voltage: 12 Vdc
- Rated current: 10A
- Electric load: 12 Vdc lamp
- Multifunction instrument, microprocessor-based
- Buffer battery
- Rated voltage: 12 Vdc
- Capacity: 12 Ah
- Indoor Lighting Device
- To operate the photovoltaic panel indoor

Training Program

- Components of a stand-alone solar system for electricity production
- Effect of solar radiation on the panel output voltage
- Effects of shading on a real solar installation
- Photovoltaic panel energy conversion efficiency

