

# Alternative Energies

## DL HYDROGEN-B

### FUEL CELLS SYSTEMS TRAINER



This trainer has been designed for the study of fuel cell systems. It teaches their engineering principles and it allows performing a set of experiments for educational purposes.

It is safe and easy to be operated.

Furthermore, it is very flexible, modular and suitable for the understanding of basic principles as well as more complex technology concepts.

#### **Technical specifications:**

- 100 W PEM fuel cell. Performance: 14 V at 7.2 A. Consumption of H<sub>2</sub>: 1.3 l/min. it includes the electronic controller
- Modular system with expansion options
- Data recording via PC interface
- User-friendly data processing software
- 225 l aluminum storage canister

The trainer includes the following **application modules**:

- DC/DC converter module
- Load module, with two halogen lamps, 12 V, 50 W
- Rheostat module, 47 Ohm, 50 W
- Measurement instruments modules

The trainer includes a software for data acquisition and processing.

#### **Optional modules:**

- DC/AC converter, sinusoidal output
- Load module, with two halogen lamps, 220 V, 50 W

**Option for filling the hydride storage canister:** Hydrogen generator with PEM electrolyzer