



SOLAR ENERGY MODULAR TRAINER



DL SOLAR-B

Modular trainer for the theoretical-practical study of the electrical installations with photovoltaic solar energy.

Composed of:

- A photovoltaic inclinable module, 90W, 12V, complete with a cell for measuring the solar irradiation and with a temperature sensor.
- A supporting frame for the modules.
- A battery.
- A battery control module, 12V, 32A.
- A load module. It includes two 12V lamps, dichroic 20W and LED 3W, with independent switches.
- A load module. It includes two mains voltage lamps, dichroic 35W and LED 3W, with independent switches.
- An electronic regulation module, with LCD screen.
- A rheostat.
- A module for the measurement of: solar irradiation (W/m^2), solar panel temperature ($^{\circ}\text{C}$), current up to 30V, $\pm 15\text{A}$ (two dc ammeters), voltage up to 40V and power up to 300W.
- A dc to ac converter module, with sinusoidal output at mains voltage. Average power: 300 W.

The trainer is complete with connecting cables and experiment manual.

The trainer is also **complete with data acquisition and processing software**.

Option:

DL SIMSUN: module with lamps to provide suitable lighting for the solar panel when used indoor.

