



SOLAR PHOTOVOLTAIC ENERGY MODULAR TRAINER WITH CONNECTION TO MAINS



DL SOLAR-D1

Didactic system for the study of the generation of electric energy from photovoltaic panels and its inlet in the mains network.

Composed of:

- Photovoltaic inclinable panel, 90W, 12V, complete with a cell for measuring the solar irradiation and with a temperature sensor.
- Supporting frame for the modules.
- Load module. It includes two mains voltage lamps, dichroic 35W and LED 3W, with independent switches.
- Power rheostat, 6 A, 80 W.
- Differential magneto-thermal switch module.
- Module with instruments for the measurement of: solar irradiation (W/m^2), solar panel temperature ($^{\circ}\text{C}$), solar panel current, battery or load current, solar panel voltage and active power at mains voltage.
- Grid type inverter, with output at mains voltage, 12 V, 300 W.
- Electric energy measurement module in kW/h.
- Network distributor.

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.

