



OMEGA TYPE ETB - 186 Solar Educational kit has been designed specifically to make students in educational institutes aware of the elementary principles of solar energy and its applications. With the help of the kit, one can study solar photovoltaic system, its electrical characteristics and applications.

The training kit will be quite educative to students in schools and at pre-university and college levels.

OBJECT

- 01 To study Photo Voltaic Module characteristics by plotting I-V curve or spectral response.
- 02 To demonstrate the electrical appliances on both the Solar Module and the battery.

FEATURES

Solar Educational kit consists of:

- 01 **SOLAR MODULE** : The solar module (3 volt nominal) used in this kit is formed out of a single silicon solar cell cut into 8 parts and then soldered together to form an assembly of 8 solar cells in series. The module can provide power upto 1 watt.
- 02 **NICKEL CADMIUM (Ni-Cd) BATTERY**: The nickel cadmium battery cells, connected in series store the electricity generated by the solar cells so that the loads can be used even while the module is unexposed to light.
- 03 **D.C. Voltmeter**, 65 mm rectangular dial to read 0-10V D.C.
- 04 **D.C. Milliammeter**, 65 mm rectangular dial to read 0-250mA D.C.
- 05 **POTENTIOMETER** : The Potentiometer plays the part of a variable resistor during the operation.
- 06 Switches for module characteristic mode and solar PV system mode.
- 07 Electrical appliances supplied with the Kit for live demonstration are Torch, Clock, Calculator, Musical-bell, Radio set.
- 08 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
- 09 **Weight** : 3.400 Kg. (Approx.)
- 10 **Dimension** : W 340 x H 125 x D 210

We are committed to the continuous development of our products, and therefore reserve the right to amend specifications without prior notice.

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