



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.
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 0-5V 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 Transistor Radio set, Calculator, Torch, Clock, Musical-bell
- \* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

**Tesca Technologies Pvt. Ltd.**

305, Taru Chhaya Nagar, Tonk Road, Jaipur-302029, India  
Tel: +91-141-2724326, Mob: +91-9413330765  
Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tesca.in