

BSET – Basic Solar Energy Trainer



The Solar Energy Trainer introduces the fundamentals of a solar cell (photovoltaic Cell) and conversion of the sun's photons into electrical energy. This can be monitored with a built-in voltmeter and ammeter to measure the voltage and current produced. The Trainer allows the study of the characteristics and application of solar energy and the charge of batteries using solar energy.

Experiments

- Calculation of voltage and current of solar cells
- Calculation of voltage and current of solar cells in parallel
- Study of V - I curve and power curve of solar cells to find the maximum power point (MPP) and efficiency of a solar cell
- Calculation of solar cell efficiency
- Application of solar cells in domestic use
 1. Charging battery
 2. Operating a lamp, fan and radio

Specification

Solar Panel	6 solar cells Maximum Voltage of each solar cell : 1.5 V Maximum Current of each solar cell : 150 mA
Voltmeter	0 – 10 V
Ammeter	0 – 500 mA
Potentiometer	5K
2 AA Rechargeable Battery NiCd battery	1.2 V
Bulb	1.2V 270mA
Fan	1.5V 400mA
Dimension (mm)	365 x 265 x 120

Ordering Information

Model Number:

Consists of:

BSET

Solar Cell Panel
Trainer including Voltmeter and Ammeter
Chargeable batteries
Connecting Cables
Manual

Notes.

1. *Specification is subject to change without notice.*

2. *All dimensions are in mm unless otherwise stated*

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