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**Product Name :**  
Photovoltaic Solar Energy Trainer

**Product Code :**  
LBNY-0005-18400025



#### **Description :**

Complete with connecting cables and experiment manual. Photovoltaic Solar Energy Trainer is mounted on a mobile structure that allows it to be moved to the venue for practical sessions and allowing the photovoltaic panel to receive solar radiation.

#### **Training Objectives:**

The photovoltaic panel, which can be inclined through a range of 0 to 90, and the calibrated cell used to measure solar irradiation, are on one side, and all of the components of a basic photovoltaic facility used to provide 12 V of direct current and 230 V of alternating current are on the other side.

Identification of all components of the trainer and how they are associated with its operation

Measurement of the voltage and power parameters of the photovoltaic panel

Programming the load regulator

Analysis of the installation of the trainer

Measurement of solar irradiation

Alternating current supply

Direct current supply.

#### **Technical Specification :**

50 W, 12 V photovoltaic panel.

Instrument used to measure the charging current.

Cell for measuring solar irradiation.

Two protective magnetothermal switches.

Lamps used with loads of 12 V and 230 V

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Instrument used to measure solar irradiation in W/m<sup>2</sup>.  
Programmable electronic load regulator, with a large LCD screen.  
150 Wp semi sinusoidal inverter to obtain 230 V of alternating current.  
17 A/h battery.



**Laboratory Instrument India**