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**Product Name :**  
Solar Photovoltaic Energy Installation Kit

**Product Code :**  
LBNY-0005-18400029



#### **Description :**

##### **Training Objectives:**

- To investigate how the solar irradiation influences the solar panel output voltage
- To obtain a daily irradiation curve
- To test the complete system
- To cover the solar panel with different materials
- To calculate the inner resistance of the solar panels
- To use both solar power and energy stored in the battery to power the DC load
- To charge the battery using solar energy.

##### **Technical Specification :**

- An electronic current regulation module, with LCD screen, output 12 V, 30 A.
- A frame for supporting the electrical components of the system: lamps, switches, protections, etc.
- An inverter, with output at mains voltage, 12 V, 30 A, 300 W.
- Two photovoltaic inclinable panels, 90W, 12V.
- A supporting frame for the panel.
- A battery control switch, 0-600 V, 32A with battery, 100 Ah.
- Two mains voltage lamps, dichroic 35W and LED 3W, with independent switches.
- Two 12V lamps, dichroic 20 W and LED 3W, with independent switches.
- Cables, connectors and accessories.



**Laboratory Instrument India**