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**Product Name :**  
Combined Wind And Solar Generator Demonstrator

**Product Code :**  
LBNY-0005-18400034



#### **Description :**

Combined Wind And Solar Power Generation is supplied with a 500W solar simulator that allows the panel to be irradiated and generate power within the laboratory. This allows students to investigate the relative magnitude of incoming solar radiation, relative to power generated.

A small solar panel with nominal 10W output is connected to a battery charge control system. The charge controller can be connected to the supplied 12V deep cycle lead acid battery. The charge controller is also connected to a small wind turbine.

#### **Technical Specification :**

##### **Experimental Capabilities:**

- Investigation of the effect of panel output voltage with solar irradiation.
- Investigation of the effects of shading on a practical solar installation.
- Investigation of the components of a Combined Wind And Solar Power Generation system
- Investigation of the effect of wind direction on generator performance.
- Investigation of a wind power generator.
- Examination of battery charge management system.
- Investigation of the change in air momentum before and after the generator:-
  - When generating power
  - Attachment of Optional DC Loads
  - When not generating power
- Examination of a battery charge management system.



**Laboratory Instrument India**