



Email : sales@laboratoryinstrumentindia.com

**Product Name :**  
Solar Wind Hybrid Trainer

**Product Code :**  
LBNY-0005-1890002



#### **Description :**

The instrument panel interface allows students to measure the outputs and determine efficiency. The system is mounted on a sturdy mobile 2x2 welded powder coated steel frame and has a student workbench. Solar Wind Hybrid Trainer has combined two of the most viable "green" electrical generation systems from carbon-free energy sources in the Using standard solar PV panels and circuit controls to safely charge the batteries, both the wind and solar photovoltaic concepts are presented so students learn how these systems work. The instrument module provides accurate power output readings. Also, an inverter is included for the power to be converted back to AC use in appliances. The energy can be stored in a battery protected by a charge controller.

#### **Technical Specification :**

Learn the theory and application of photovoltaic cells and wind generation of DC power to AC conversion for operating common electrical and electronic devices. Discover practical energy conversions from abundant carbon-free energy sources: the sun and wind.

Equipment and Parts List:

6 Amp Wind Turbine with Charge Controller

50 Watt Solar Panel

One 120 Volt Load

Four 12 Volt Loads

Two 26 Amp/Hr. 12 Volt DC Batteries

1500 Watt Inverter

Mobile Stand

2 Charge Controllers/LVD

PC Data Acquisition

---

Voltmeter, Ammeter (0-100 amp), Lightmeter, and Anomecer  
Temperature Gauge  
Low Voltage Disconnect.



**Laboratory Instrument India**