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**Product Name :**  
Photovoltaic In Grid Connected Operation Unit

**Product Code :**  
LBNY-0005-1410002



### Description :

The photovoltaic DC current from is fed to the input of via a connection cable. Inside the DC current passes safety devices and enters the inverter. The inverter transforms the DC into AC current. The unit contains these components and is conceptualized as an extension for the trainer. The inverter also optimizes voltage and current to ensure that the photovoltaic modules produce maximum possible power. Feeding electricity from photovoltaic solar modules into the mains grid requires several special system components. These components enable conversion and capture of the solar electricity and ensure system safety. The amount of fed in electricity is captured by a modern two way electricity meter and the own consumption is captured by an energy logger. The inverter output provides an AC voltage with appropriate level and frequency to enable feeding into the mains grid.

### Features:

Modern two way energy meter for capture of energy transferred to and from the mains grid.  
Inverter providing grid control and maximum power point tracking.  
Dimmable halogen lamp for experiments under varying electrical load.  
Unit with practical components for grid connected usage of solar electricity.

### Technical Specification :

Extension for Solar Module Measurements  
Inverter for grid operation with maximum power point tracker  
Socket with energy meter for own consumption  
Two way energy meter connecting to the mains grid  
Electrical components for grid connected usage of photovoltaics  
Combiner box with DC switch-disconnector and over voltage protection.



**Laboratory Instrument India**