

# Solar Trainer

## Introduction

This trainer is used to perform all the experiments of **SOLAR TRAINER**. It is useful for experimentation as well as project work. This trainer is designed in a fashion, all sections can be operated individually. This is useful for ITI, Diploma, and B.Tech. For research / Project work, we give **optionally** re-programmable facility & PC interface with Labview Easy to perform. This trainer is very useful for **ECE,EEE,EE,ME** and **I&C Eng** streams.

## Technical Specification

- Voltmeter : 0-20V
- Ammeter : 2Amp
- Inverter Circuit : 12V -240
- DC Load : 2 Nos
- AC charge control Unit : 1
- 2 Solar Panel
- Aluminium Panel
- Fire protected

## EXPERIMENTS

- Study of Components of Solar Panel Trainer
- Voltage Measurement in Open Circuit
- Current Measurement in Open Circuit
- Series Voltage & Current Measurement of Solar Panel
- Parallel Voltage & Current Measurement of Solar Panel
- To operate DC Load ( Fan/ LED)
- To measure the Voltage of DC Load
- To measure the Current of DC Load
- To operate AC Load (Bulb)
- To perform experimentation of inverter circuit using solar panel, 12V Battery, Fan, CFL
- To calculate efficiency of Solar Trainer



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