

Product Name :
Electrical Solar Energy Trainer

Product Code :
Green REN-0001



Description :

Solar Energy Trainer

Technical Specification :

Learning Objective:

- Measurement and Analysis of Different parameters of Solar PV Module : open circuit and short circuit, parameter measurement with series and parallel PV modules , I-V characteristic and Power curve of PV module and PV array , efficiency and fill factor.
- Load Estimation and calculation.
- Study of Charge controller.
- Study of different parameter of inverter efficiency , PWM switching , charging of batteries , over load and over battery protection

Power Supplies:

- Operated on Mains power 230V, 50Hz +10%

Digital/Analog Meters:

- Voltmeter (DC and AC Separately)
- Ammeter (DC and AC Separately)
- Multi Function Meter
- Capacitor Mounted Inside the Control Panel.

Components featured on the panel are:

- Solar Panels With Stand 500W
- Power And Charge Controller Unit (Solar)
- Batteries (1Nos.)
- DC to AC Converter
- Single Phase Lamp Load Switched Control.

Features:

- Front panel built with high class insulated Bakelite sheet with Sticker well printed circuits and symbols.
- The trainer is housed in Modular Based Rack Type Aluminum Extruded Metal cabinet.
- Instruction manual.
- Patch Cords 4mm (Heavy Duty).
- High Voltage Test Points are Provided With 4mm Safety Sockets.
- Short Circuit protection with the MCB.
- Size of the trainer set 48"x24" .

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