

WS-SGIP10

Basic Energy Conversion Trainer



Introduction

- This trainer is designed to learn an energy conversion which is generated by a solar cell.
- It is possible to adjust an incidence angle of light source.
- Data Collect Monitoring Program
 - Curve Tracer (V-I & V-P Graph)
 - PV Simulation

Experiment

- Light intensity of a solar cell
- Solar cell characteristic
- Characteristic curve using a curve tracer
- Characteristic curve as regarding surface temperature of a solar cell
- Over charge & discharge system
- Open voltage and short current experiment.
- By-Pass diode characteristic experiment
- Load characteristic experiment as regarding angle
- Principle of boost
- Load Experiment of a Stand-Alone inverter
- Stand-Alone inverter(PWM) principle

Specification

- Main Voltage : 1 Phase 220~240V / 50/60Hz
- Working Table & Board
- Solar Cell & Lamp
 - Solar Cell
 - Radiation Sensor

- Halogen Lamp
- Temperature Sensor

■ Experiment Module

- WS-SGIP10-01
Charge Circuit Module
- WS-SGIP10-05
Power & Light Control Module
- WS-SGIP10-04
Data Acquisition System Module
- Circuit Study Module
 - Charge Circuit Module

- WS-SGIP10-02
DC-DC Boost Module
- WS-SGIP10-06
Load Module

- WS-SGIP10-03
PWM Inverter Module
- WS-SGIC-09
Battery Module

- DC-DC Boost Module

- PWM Inverter Module

Accessory

- Experiment Manual : 1Copy
- Communication Cable : 1Set
- Monitoring Software : 1Copy
- Power Cable : 1EA
- Test Lead (Banana Plug) : 1Unit
- Dust Cover : 1EA

* Product's design and appearance can be changed without any notice.