

WS-SGIC

Solar Power Generation System (Module Type)



Introduction

- This trainer is designed to learn a principle of a solar power generation system.
- It has a grid-connected and stand-alone inverter and it is used for studying both inverter system.
- 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
- Over charge & discharge system
- Street light experiment
- Series connection of a solar cell
- Series & parallel connection of a solar cell
- Using emergency power
- Open voltage & short current experiment
- By-Pass diode characteristic experiment
- Boost experiment
- Stand-Alone inverter experiment
- Grid connected inverter experiment
- Parallel connection of a solar cell
- Load experiment using emergency power

Specification

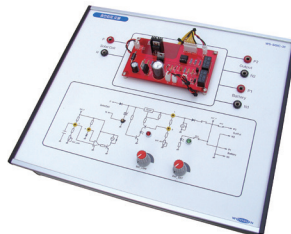
- Main Voltage : 1 Phase 220~240V / 50/60Hz
- Working Table & Frame
 - Frame : 2 Steps
- Module Storage Cabinet : 1EA
- Solar Cell Actuator
 - Solar Cell
 - Radiation Sensor
 - Lamp
 - Temperature Sensor

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

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Solar Power Generation System (Module Type)

Experiment Module



- WS-SGIC-02
DC-DC Boost Module
- WS-SGIC-04
Smart Grid Measurement Module
- WS-SGIC-06
Digital Meter Module
- WS-SGIC-09
Battery Module
- WS-SGIC-11
Lamp Control Module
- WS-SGIC-16
Integrating Wattmeter Module
- WS-SGIC-18
Starter Relay Module
- WS-SGIC-21
Charging Controller Module
- WS-SGIC-03
Grid-Connected Inverter Module
- WS-SGIC-05
Smart Micro Grid Module
- WS-SGIC-07
Load Module
- WS-SGIC-10
Stand-Alone Inverter Module
- WS-SGIC-12
Reverse Current Prevention Module
- WS-SGIC-17
Power Line Detection Module
- WS-SGIC-20
Data Acquisition System Module

Accessory

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