Fuel Cell Trainer (case Type)

Category: New & Renewable Energy · Model reference: MZM-5002



SPECIFICATIONS

DESCRIPTION:
- Understand the conception and principal of fuel cell generation
- Fuel cell generation using photovoltaic
- Complete disassembly and assembly of the fuel cell
- Current and voltage measurement for PEM Fuel Cell Stack according to each of Cell
- Power production experiment using PEM Fuel cell
- Modularized of the processes covering
- electrical dissolution of water and drive of fuel cell
- Experiment on various types of load
- PEMFC(Hydrogen) generation experiment
- Testing of load for maximum four fuel cell at the same time Monitoring through Lab VIEW program

Experiments:
Photovoltaic Generation
- Solar cell generation experiment according to luminance
- Solar cell generation experiment according to angle
- Experiment on characteristic curve solar cell IV
- Experiment (Motor, Lamp, Resistor) according to solar cell Load
- Fuel Cell Generation
- Understand the conception and principal of fuel cell generation
- Hydrogen electrical dissolution experiment
- Experiment the principal for Hydrogen Generation
- Experiment characteristic Load of PEMFC Cell (Motor, Lamp, Resistor)
- Experiment characteristic Load of PEMFC Stack (Motor, Lamp, Resistor)
- Experiment changed power which is created from each of cell
- PEMFC cell serial and parallel experiment
- Experiment on characteristic curve IV of PEMFC Stack
- Experiment on disassembly and assembly of PEMFC Cell

Configuration:
- Solar Module: 1 ea.
- Halogen Lamp: 1 ea.
- Dimmer: 1 ea.
- Solar H2/Air PEMFC Stack (PEM Fuel Cellx10): 1 ea.
- PEM Fuel Cell: 2 ea. (Serial and parallel experiment)
- H2/Air Electrolyze: 1 ea.
- Adjust Resistor / Electric Load Meter: 1 ea.
- LED Lamp Load: 1 ea.
- Motor Load: 1 ea.
- Insolation Meter: 1 ea.
- Infrared Thermometer: 1 ea.

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