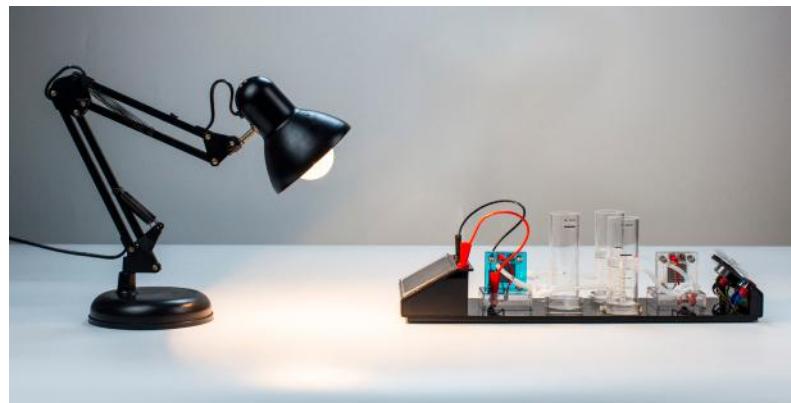


Hydrogen Oxygen Fuel Cell Experiment (Includes Long Arm Light Source)

BEM-5031A

Summary

BEM-5031A is a complete energy system. The experiment is designed to demonstrate the reaction of a small amount of hydrogen and oxygen within a given time for teaching purposes. It fully demonstrates the conversion of solar energy - electrical energy - chemical energy - electrical energy. It offers two energy output options: fan and LED.



Features

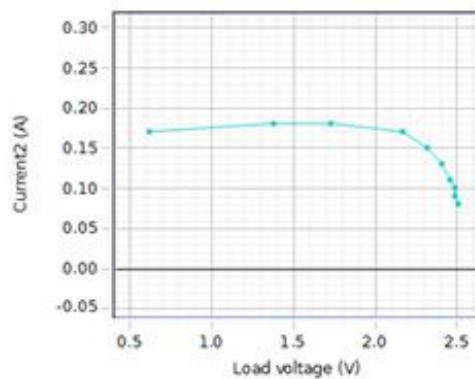
1. Complete demonstration of the conversion between solar energy - electrical energy - chemical energy - electrical energy.
2. Simultaneously collect hydrogen and oxygen.
3. Two energy output demonstration methods: fan / LED.

Main Experiment Contents

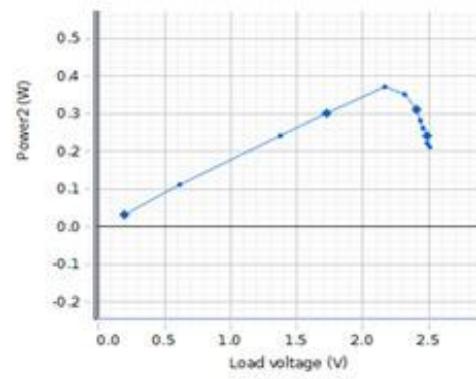
1. Current-Voltage characteristics and Power-Voltage characteristic of solar cells.
2. Matching of the maximum power point of solar cell panels.
3. Electrolysis efficiency of electrolysis modules.
4. Reaction efficiency of fuel cells.

Experiment Contents and Typical Data

1. Current-Voltage characteristics and Power-Voltage characteristic of solar cells

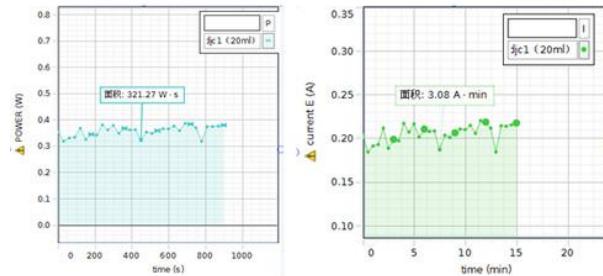


Current-Voltage characteristics of solar cells

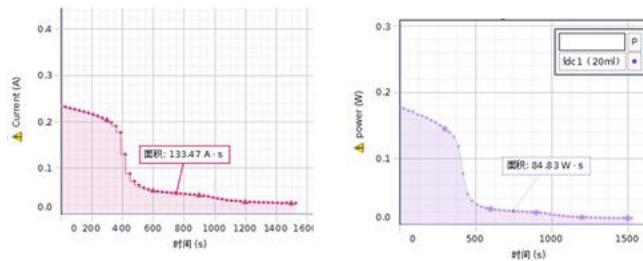


Power-Voltage characteristic of solar cells

2. Electrolysis efficiency of electrolytic modules



3. Reaction efficiency of fuel cells



Specifications

NO.	Part Name	Main Parameter
1	Proton Exchange Membrane Electrolytic Module	Input voltage: 1.5V to 3V DC; Input current: 700mA
2	Proton Exchange Membrane Fuel Module	Output voltage: 0.6V DC
3	Base Unit (with Solar Panel and Load)	1. Solar panel: Voltage: 2.5V; Current: 300mA 2. Micro motor: Operating voltage: 0.5 - 1V DC
4	Angle Adjustable Long Arm Light Source	Power: 100W

Configuration List

NO.	Part Name	Model	Qty.
1	Proton Exchange Membrane Electrolytic Module	BC-201012	1
2	Proton Exchange Membrane Fuel Module	BC-201013	1
3	Base Unit (with Solar Panel and Load)	BC-201014	1
4	Water Reservoir	BC-121141	1
5	Hydrogen/Oxygen Gas Storage Tubes	BC-201016	2
6	Fan Blade	BC-124058	1
7	Plastic Tube Clamp	BC-124055	8
8	3mm Inner Diameter Silicone Hose	BC-124054	8
9	Connection cable, banana jack, 20cm, red	BC-104085	2
10	Connection cable, banana jack, 20cm, black	BC-104086	2
11	Angle Adjustable Long Arm Light Source	SEM-5406	1