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Product Name :

Solar H2 Ready-To-Go

Product Code :

SLE/PHY/210



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Description :

Solar H2 Ready-To-Go (Product Code: SLE/PHY/210) is a complete hydrogen and fuel cell experiment set used to build and examine a solar-hydrogen cycle in the science classroom. Teachers choose it because it lets students compare PEM fuel cells with an ethanol fuel cell, and every ancillary part, down to two digital multimeters, travels in one aluminium suitcase. This solar energy science kit is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Kit type	Fuel cell and hydrogen technology experiment set from the Ready-to-go series, with all ancillary equipment included
Energy chain demonstrated	Solar module ? electrolyzer ? hydrogen storage ? fuel cell (solar-hydrogen cycle)
Solar module	2.5 V, 420 mA
Fuel cells	3 x PEM fuel cell module and 1 x solar ethanol fuel cell module
Hydrogen generation and storage	Electrolyzer module 2.0, H2 Charger, H2 Storage with valve, gas storage module
Measuring instruments	2 x digital multimeter; potentiometer module for load variation
Load and light source	Motor module without gear with propeller; lamp with table clamp
Case	Aluminium suitcase with H2 Ready-to-go insert
Experiments covered	What an electrolyzer does; characteristics of the electrolyzer, PEM fuel cell and ethanol fuel cell; Faraday and energy efficiency of the electrolyzer and PEM fuel cell; hydrogen production with the H2 Charger; hydrogen storage with H2 Storage; parallel and series connection of PEM fuel cells; setting up the electrolyzer and the fuel cells
Product code	SLE/PHY/210
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

Complete list of components:

- 1 x Solar-Base unit Large
- 1 x Potentiometer module
- 1 x Motor module without gear
- 1 x Solar module 2.5 V, 420 mA
- 1 x H2 Charger
- 1 x H2 Storage
- 1 x Valve for H2 Storage