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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 offers the entire spectrum of current fuel cell technology for the classroom. This product was completely reworked and now contains the newest fuel cells for educational purposes.

Solar module, electrolyzer, and fuel cell permit the assembling and examination of a solar-hydrogen cycle.

Beside the PEM-fuel cell, it also contains an ethanol-fuel cell in order to compare the different technologies.

H₂ Charger and H₂ Storage allow for the easy generation and storage of hydrogen.

Working principles, efficiency and characteristics curves of electrolyzer and fuel cell are just some of the topics covered.

True to the traditions of the Ready-to-go series all ancillary equipment is already included in the robust aluminum suitcase.

Experiments :

What does an electrolyzer do?

Characteristics of an electrolyzer

Characteristics of a PEM-Fuel cell

Characteristics of an Ethanol-Fuel cell

Faraday and energy efficiency of the electrolyser

Faraday and energy efficiency of the PEM-fuel cell

Hydrogen production with the H₂ Charger

Hydrogen storage with the H₂ Storage technology

Parallel- and series connection of PEM-fuel cells

Set up of an electrolyzer and the different fuel cells

Technical Specifications :

Components:

1x Solar-Base unit Large

1x Potentiometer module

1x Motor module without gear

1x Solar module 2.5 V, 420 mA

1x H₂ Charger

1x H₂ Storage

1x Gas storage module

1x Electrolyzer module 2.0

1x Solar ethanol fuel cell module

1x Koffer

1x Test lead black 50 cm

1x Test lead red 50 cm

1x Valve for H₂ Storage

1x Insert H₂ Ready-to-go

1x Info sheet initial startup

1x Layout diagram H₂ Ready-to-go 2.0

0,15x L2-02-048 Silicone tube 2 mm

1x Propeller

1x Lamp with

2x Digital m

2x Test lead

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