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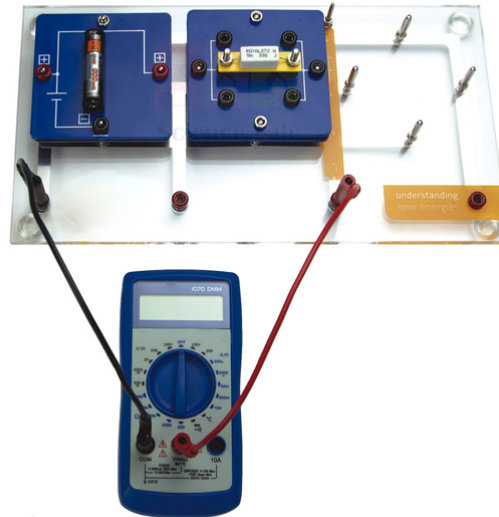
Phone: +91-7082934803

**Product Name :**

Solar EMobility Ready-To-Go

**Product Code :**

SLE/PHY/209



**Website:** <https://www.scilabexport.com>, **Email:** [sales@scilabexport.com](mailto:sales@scilabexport.com)

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## Description :

This product teaches the physical and technical foundations and applications of different battery technologies.

Eight different battery types like lithium-polymer battery, capacitor or fuel cell allow for the study of characteristics like lifespan and charging methods.

Qualitative and quantitative experiments are used to explore the properties of various battery types.

The electric car can be run with all included storage types.

With the integrated Charger Module batteries are always ready to use and battery charging methods can be addressed in experiments.

Like the other products of the Ready-to-go line, the Solar-EMobility Ready-to-go amazes with its flexible and location-independent usability that doesn't require any additional equipment.

## Experiments :

Ohm's law

Series connection of ohmic resistances

Parallel connection of ohmic resistances

Temperature-dependent behavior of the lithium-polymer cell

The charging process of a capacitor

The discharge process of a capacitor

I-V characteristics of the single NiMH battery module

I-V characteristics of the NiZn battery module

I-V characteristics of the LiFePo battery module

I-V characteristics of the lead battery module

I-V characteristics of the lithium-polymer battery module

I-V characteristics of the triple NiMH battery module

The charging process of the NiMH battery

The charging process of the NiZn battery

The charging process of the LiFePo battery

The charging process of the lead battery

The charging process of the lithium-polymer battery

The discharging process of a battery module

Nominal voltage and capacity of voltage sources

Four-terminal sensing Internal resistance of voltage sources

Series connection of voltage sources

The capacitance of a battery module

The energy density of battery modules

The Ri efficiency of a battery module

The total efficiency of a battery module

Hydrogen production in the reversible hydrogen fuel cell

Characteristic curve of the electrolyzer

Hydrogen consumption of a fuel cell Characteristic curve of the fuel cell

The efficiency of the hydrogen fuel cell

Operation of the electric car with several battery modules

Operation of the electric car with the reversible fuel cell

## Technical Component

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1x Battery

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