



HELAGO-CZ, s.r.o.  
Commercial Register maintained by the Regional Court in  
Hradec Králové  
Section C, File 17879  
Kladská 1082  
500 03 Hradec Králové 3  
Company ID: 25 96 39 61, VAT: CZ 25963961  
Phone: 495 220 229, 495 220 394  
Fax: 495 220 154  
GSM gate: 602 123 096  
E-mail: info@helago-cz.cz  
Web: <http://www.helago-cz.cz>

## leXsolar-EMobility Basic (Set of 12 psc)

Order code: **5501.1830**



Cena bez DPH

3.544,00 Eur

Price with VAT

4.288,24 Eur

Parameters

Subject

Photovoltaics

Quantitative unit

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With leXsolar-EMobility Basic the students experience electric mobility close to the action. The electric model car can rush through the classroom with the supercapacitor or can be powered by the solar module directly from the sun. **This, leXsolar-EMobility Basic combines storage technologies and an electric vehicle in one experimental kit.** Based on illustrative experiments the kit imparts the basic knowledge about those topics. Combined with leXsolar-H2 Basic a fuel cell car can be built.

**Note:** For using this product you additionally need the leXsolar-Minikit Basic in primary school and the leXsolar-Kit Basic in Junior High School, each of which contains all necessary accessories.

## Experiments



- Storage of solar energy
- Operation of a solar-powered electric car
- The speed of the electric car depending on the sunlight conditions
- Operating an electric car with the capacitor
- Dependence of the power of the electric car on the charge state of the capacitor
- The characteristics of a capacitor
- The characteristics of a solar module

## List of components

- 1 x 1100-31 Solar module 2.5 V, 420 mA
- 1 x 1600-02 Capacitor module 5.0F/5.4V
- 1 x 1801-02 Electric model car
- 1 x 1830-01 Carton 1830
- 1 x L3-01-178 Insert EMobility basic 1830
- 1 x L3-03-206 Layout diagram EMobility Basic 1830
- 1 x L3-03-258 Info sheet initial startup

**Extras needed:**

1 x 2030 leXsolar-Minikit Basic

or

1 x 2031 leXsolar-Kit Basic