

The solar module SUSE CM6MS

Inexpensive and powerful beginner's solar module

with solar cell, solar motor, switch and test jacks

Particularly suitable for the application in student-centered experimental classes of class levels 3 to 10

On the roof-shaped bent module base plate made of plexiglass (overall dimension 155 x 80 mm) the solar cell with the dimensions 52 x 52 mm (embedded break-proof in the solar module SUSEmod2) is visible on the left.

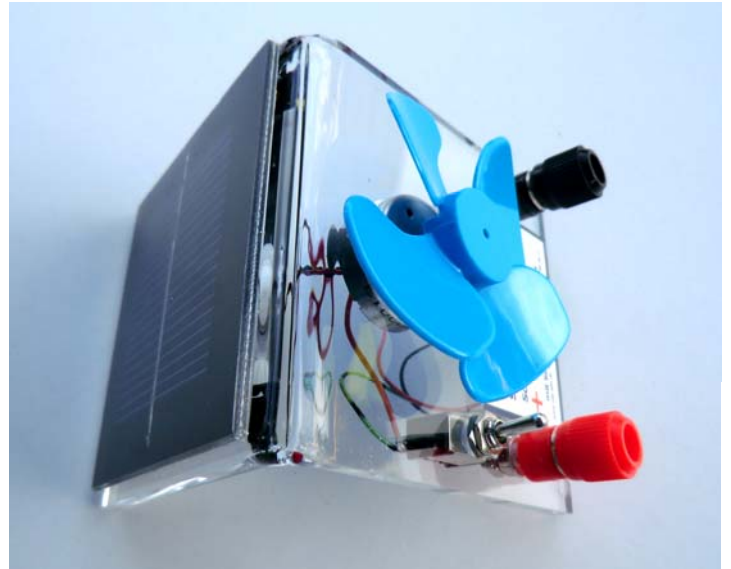
On the right-hand side the solar motor with air-screw is positioned, which is connected to the solar module by a switch. Next to the type plate there are two binding posts, here lab wires can be plugged in or bell wire can be clamped. Voltages and short-circuit currents can be measured here or additional devices can be connected (solar motors or other devices SUSE CM6B in series connection).

The electric motor can be switched on and off with the switch.

The module is well suited for photovoltaics experiments in class levels 3 to 10. Experiments and manuals for Elementary schools as well as Secondary Schools were developed with NILS-ISFH for this purpose.

The open-circuit voltage and the short-circuit current can be measured at the binding posts, additionally several modules SUSE CM6B may be connected in series.

The **short-circuit current** is a direct measure of the light's intensity and proportional to the irradiance S , it is **900 mA** for bright sunshine ($S = 1000 \text{ W/m}^2$), the **open-circuit voltage** is **0.6 V**. For this experimentation device an extensive experimentation manual for experiments in Elementary Schools and Secondary Schools is available.



The electric circuit

