

The solar module SUSE CM4MSB

Powerful beginner's solar module 600 mV / 900 mA

Especially suited for student-centered experimental classes in ISCED levels 1-2



View from above onto the solar module SUSE CM4MSB

On the back side of the roof-shaped plexiglass base plate the solar module with the solar cell is visible. On the front, below the blue propeller, the solar motor is located, below it the type plate, the switch and the test jacks.

On the roof-shaped bent module base plate made of plexiglass (total dimensions 310 x 80 mm) in the front the solar electric motor with the blue propeller is visible, below the test jacks and the switch for the solar motor. On the other side of the "roof" of the plexiglass base plate the high-quality solar module with a voltage of 0.6 V, a short-circuit current of 900 mA, and an electric power of 432 mW is glued on. (All data with an irradiance of the sunlight of 1000 W/m²)

The electric motor and the solar module are connected electrically via a switch, the motor can be turned off or on, the version CM4MSB² has an additional test jack for the solar motor.

The module is well suited for photovoltaics experiments in ISCED levels (late) 1 to 2.

Basic experiments on photovoltaics and solar cells and modules can be conducted in student experiments. The solar module is very sensitive and works well even under a clouded sky. If the solar motor is turned off, experiments with the solar cells can be conducted independent from the motor, multimeters can be connected to the test jacks.

The solar module SUSEmod2 used here provides an open circuit voltage of 0.6 V and a short-circuit current of 900 mA with a solar irradiance of 1000 W/m² (bright sunshine with deep blue summer sky), 25° C and AM 1.5.

Also multiple devices SUSE CM4MSB can be connected in series. With 6 devices in series connection e.g. a 3 V radio (e.g. SUSE solar radio 4.36) or LEDs in all colors (SUSE 4.15) can be operated in the daylight.