



**Photovoltaik-
System
SUSE**

**Solarthermiesystem
Wärme von der Sonne**

innovative Solarsysteme für Schule und Ausbildung



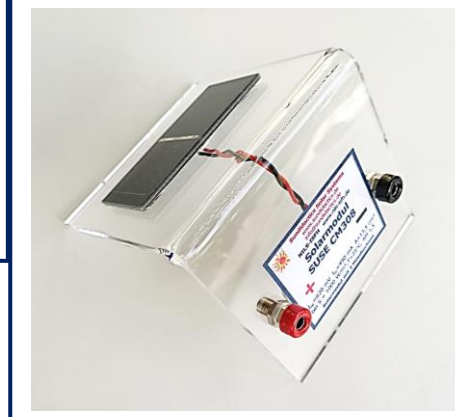
BNE
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The solar module SUSE CM308

Inexpensive and simple beginner's solar module with solar cell and 2 measurement jacks for simple experiments on photovoltaics



The devices of the SUSE CM3xx family, SUSE CM308 is the 2nd from the left.



The solar module SUSE CM308

On the front of the roof-shaped plexiglass module base plate bent to 75° with a width of 3mm or 4mm (total dimensions 160 x 80 mm) the jack pair and type plate are located. On the back the high-quality solar cell (module dimensions 60mm x 30 mm, solar cell 52 mm x 26 mm) is mounted. Data of the solar cell SUSEmod5 at standard testing conditions: $V_{oc} = 0,63 \text{ V}$, $I_{sc} = 450 \text{ mA}$.

The device is available as a **ready-to-use device** or in **2 construction kit versions** with construction manuals.

The device is suitable for experiments with series or parallel connections of several modules and with the connection of additional devices, e.g. solar motor SUSE 4.16.

A multimeter can be connected to the jack pair to measure the open circuit voltage or the short circuit current. To this end a multi-page experimentation manual is available.

The **self-assembly in the basic version** with an instructing teacher requires filing and bending of the plexiglass plate to 75°, the assembly of the jacks and the solar module, cutting out and fixing the type plate and soldering 2 wires. The self-assembly by students takes about 40 minutes.

Components of the basic version: Pre-drilled plexiglass base plate, solar module with 2 hookup wires and double-faced adhesive tape on the back, 2 jacks (red + black), type plate sticker

Required tools: Thermic plexiglass bending device with power supply unit, soldering station with tin solder, scissors, spanner 8, long-nosed pliers, construction manual

For the **self-assembly in the premium version** with an instructing teacher the bent and pre-drilled plexiglass base plate is included. Only the solar cell and the type plate have to be affixed, the jacks assembled, and 2 wires soldered together. The self-assembly by students takes about 20 minutes.

Components of the premium version: Pre-drilled and bent plexiglass base plate, solar module with 2 hookup wires and double-faced adhesive tape on the back, 2 jacks, type plate sticker

Required tools: Soldering station with tin solder, scissors, spanner 8, long-nosed pliers, construction manual

For this device there is a detailed experiment instruction.