SUNdidactics
SolarEnergyDidactics
SolarEducation
SolarEngineering
innovative Solarsysteme für Schule und Ausbildung
innovative solar- systems for school, college, technical education

Kooperationspartner
NILS ISFH
Vertrieb
Auslieferung
Rechnungsservice

Photovoltaik-System
SUSE
von der Grundschule bis zum Abitur

Solardidactic + Solarzellen + Solarmodule + PV- Experimentiergeräte + PV- Gerätentwicklung + Experimentieranleitungen + Solarspielzeug + didaktische Konzepte + Solarberatung + Fortbildung + solare Aus- und Weiterbildung
Solardidactics + solar cells + solar modules + photovoltaic experiment devices + solar toys + solar education and solar training

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Solar module SUSE 4.43

5 W solar module with 18 solar cells in internal series connection

with adjustable positioner for positioning on the ground or a table and connector cable with 2x 4 mm banana plug

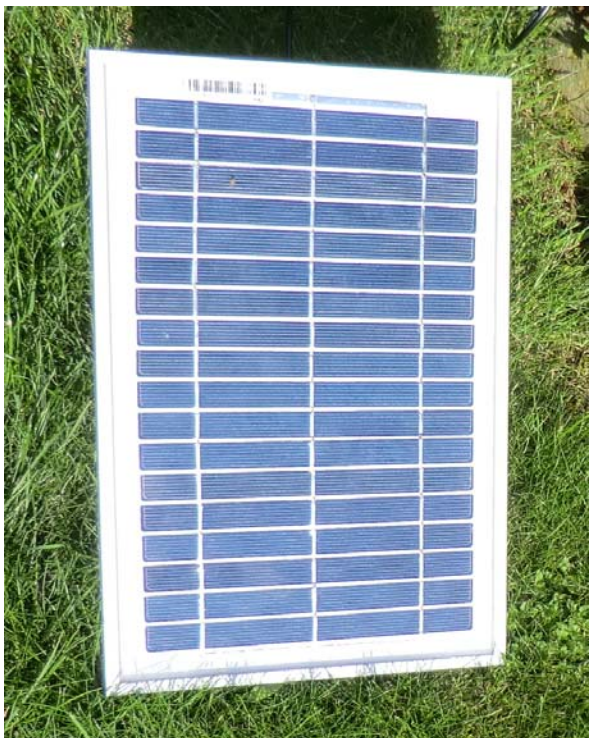
Technical data:

With an irradiance of 1000 W/m² and 25°C AM 1,5

- 18 solar cells in internal series connection
- Cell dimensions of one solar cell 13 x 156 mm
- Open-circuit voltage 10.6 V
- Short-circuit current 624 mA
- Waterproof – aluminium frame – terminal with 1 m connector cable on the back side
- Dimensions: approx. 310 x 190 x 18 mm

The adjustable positioner on the back side of the module

The open-circuit voltage in the sunlight: 10.57 V



The **solar module SUSE 4.43** is especially suitable for photovoltaics experiments with professional solar modules.
Interesting experiments about open-circuit voltage, short-circuit current, electric power, efficiency factor, and quality can be conducted. Additionally the intensity of the solar radiation (= irradiance S in W/m²) can be measured.
The ideal adjustment towards the sun can also be conducted with a multimeter connected to the test jacks.
On the back side of the device an adjustable positioner is mounted, which allows the adjustment of the device for an ideal angle towards the sun on the ground or a table.
A 1 m long two-pole cable with two 4 mm banana plugs red + and black – is connected to the output.
The module is very durable, firmly secured by a solid aluminium frame on the back, the front surface is protected by a firm solar glass pane.
If SUSE 4.43 is connected to the module SUSE 4.17, cell phones or smartphones may be charged at the USB socket, as seen in the following photo on the left-hand side:

Charging of a smartphone with SUSE 4.43 and SUSE 4.17
The charging module SUSE 4.17 is positioned out of sight behind the solar module SUSE 4.43.

The multimeter shows the **short-circuit current**:
0.7 A = 700 mA
in bright sunshine