SUNdidactics
SolarEnergyDidactics
SolarEducation
SolarEngineering

innovative Solarsysteme für Schule und Ausbildung
innovative solar- systems for school, college, technical education

- Solardidaktik
- Solarzellen
- Solarmodule
- Photovoltaik- Experimentiergeräte
- Photovoltaik- Gerätentwicklung
- Experimentieranleitungen didaktische Konzepte
- Solarberatung
- Solar- Workshops
- Solar- Fortbildung für Lehrkräfte
- solare Aus- und Weiterbildung
- Solarspielzeuge

- solardidactics
- solar cells
- solar modules
- photovoltaic -experiment - devices
- solar- experiment- manuals
- solar- workshops
- solar consulting
- solar education
- solar training for teachers
- solar toys

SUNdidactics Wolf- Rüdeger Schanz, Schaperbleek 15, D-31139 Hildesheim, Germany

Phone: +49(0)5121 86 07 30 Fax: +49(0)3222 370 66 89 Mail: wr.schanz@t-online.de
Mobile: +49(0)175 766 06 07 Web: www.sundidactics.de Mail: info@sundidactics.de

cooperation www.nils-isfh.de

The solar module SUSE 5.1

Universal and powerful solar module with test jacks
Especially suited for student-centered experimental classes in ISCED level 3

The **solar module SUSE 5.1** contains a high-quality solar cell SUSEmod2 with V_{oc} = 0.61 V and I_{sc} = 0.90 A, capsuled and laminated, as well as two 4 mm test jacks red/black for measuring the voltage or current.

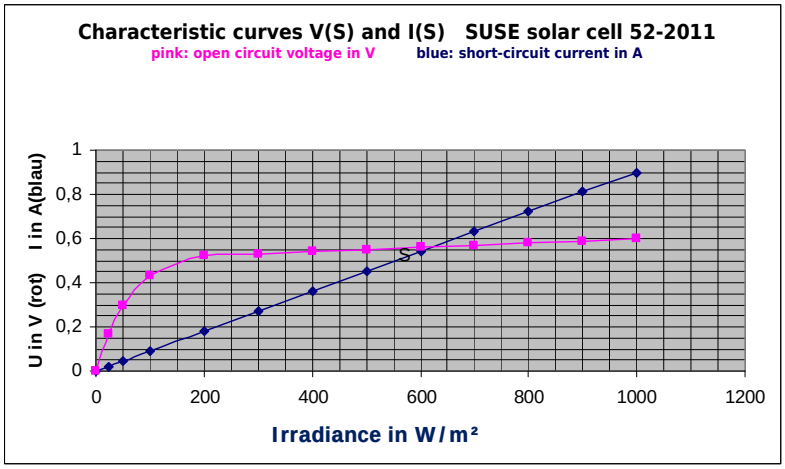
The robust device on a transparent plexiglass base plate with 8 mm stand rod is ideally suited for classes and projects in schools in ISCED level 3.

The module can be fixed on the optical bench SUSE 5.0alu or on any common optical bench in schools.

With the extensive experimentation manual multiple experiments on photovoltaics and solar radiation can be conducted.

Technical data:
Dimensions: Solar cell 52 x 52 mm
Module 80 x 60 mm
Plexiglass base plate 155 x 80 mm

Electrical data with a light irradiation (irradiance S) of S = 1000 W/m², T = 25°C and AM 1.5:
Open circuit voltage: V_{oc} = 610 mV
Short-circuit current: I_{sc} = 900 mA



The open circuit voltage (exp. Function!) is 0 in total darkness, increases strongly with low irradiances and then increases just slightly up to the maximum value of 0.6 V with 1000 W/m² (bright sunshine with blue sky, solar cell adjusted towards the sun).

The short- circuit current is a linear function through the origin and increases in a linear fashion from 0 in total darkness up to 0.9 A with 1000 W/m².

