



**SUN**didactics  
**SolarEnergyDidactics**  
**SolarEducation**  
**SolarEngineering**  
**Photovoltaics+Solarthermal**  
 innovative Solarsysteme für Schule und Ausbildung  
 innovative solar- systems for school, college, technical education

NILS  ISFH  
 Vertrieb  
 Auslieferung  
 Rechnungsservice  
 Solartechnik  
 Solardidaktik  
 Solare  
 Wissenschaft

Photovoltaik-  
 System  
**SUSE**  
 Solartechnik  
 Experimentiergeräte  
 Solare Experimente  
 von der Grundschule  
 bis zum Abitur

**BNE**  
 Bildung  
 für  
 nachhaltige  
 Entwicklung

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

## SUNdidactics Solar Systems

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# The solar module SUSE CM330/330ST

Universal, inexpensive, and powerful solar module

with 2 solar cells in internal series connection 1,26 V / 480 mA

Especially suited for student centered experimental classes

in grades 7-10 and as a solar filling station for the solar vehicle SUSE solar runabout turboST



### Device description:

The photo on the right-hand side shows the **solar module SUSE CM330ST**.

The basis of the module is a plexiglass support bent roof-shaped to 75° with the dimensions 160 x 80 mm. On the left-hand roof side, the two measurement jacks red(+) and black (-) for photovoltaic experiments, as well as the charging cable for the e-vehicle **SUSE solar runabout turboST** are visible.

On the right-hand roof side the solar module SUSEmod8 (1,26V / 480mA) is located.

**In the version SUSE CM330 the charging cable is omitted.**

### Experiments:

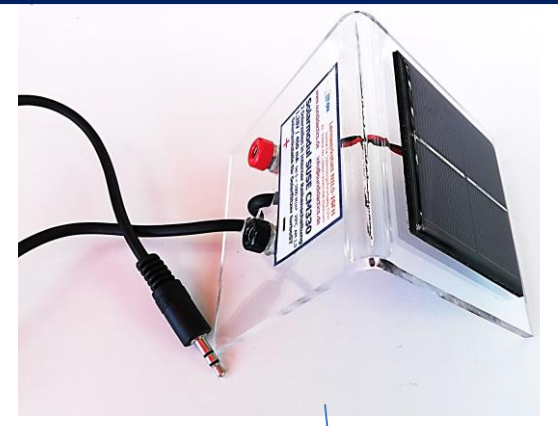
With the experimentation manual for this solar module, **extensive experiments on photovoltaics and solar radiation can be conducted**. In a series connection the module voltage is doubled with the current remaining constant.

The experiments are conducted with the use of a multimeter, measuring the current and voltage:

- Experiments on open circuit voltage
- Experiments on short circuit current
- Experiments on electric power
- Measuring the intensity of the solar radiation
- Measuring the charging of the capacitor on the e-vehicle SUSE solar runabout turboST

The device is delivered as a construction kit or a ready-to-use device. The construction kit requires thermal bending of the plexiglass plate, assembly of components, and soldering work, the construction is easy to execute with the help of the detailed construction manual.

The experiments can be conducted outdoors in the natural sunlight or indoors with the use of the basic device SUSE 4.0, a halogen spot lamp, or a red light lamp. The experimentation manual is available in a short version (max. 40 min) or a long version (max. 2 hours).



### Technical data:

Dimensions: 160mm x 80mm bent in center to 75°

2 jacks for 4mm banana plugs

1 charging cable 70 cm with 3,5mm phone jack (in version 330ST)

Solar module 60mm x 60mm with 2 mono solar cells in internal series connection 1,26V/ 480mA



Solar filling station SUSE CM330ST with solar runabout turboST