



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

Kooperationspartner



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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## The SUSE solar boat 3

Powerful solar boat with 3 solar modules SUSEmod 2 in series connection,  
solar motor and air-screw - 2 empty bottles serve as hull



Top: On the way to the water with the solar boat Source: VCP

Bottom: Solar boat test in a water barrel



### The SUSE solar boat 3

The solar boat 3 consists of a plexiglass base plate, which is bent 90° on the right side, the solar motor and the big, red air-screw are located there. On the horizontal plane 3 solar modules SUSEmod2 (0.6 V/900 mA each) are mounted, which are connected in series below the plate. 2 empty bottles serve as a hull, on which the plexiglass plate is fixed with duct tape.

The fast rotating screw generates an air flow and pushes the boat onwards. At the two screw fittings with solder lugs (on the right below the electric motor) the module voltage is applied (approx. 1.8 V), measurements of the voltage, current, power, and efficiency factor can be conducted here.

An extensive experimentation manual is sent per email on demand.

Additionally at this point 2 boats can be connected in series (on land), to connect e.g. a radio. Because of the powerful solar cells the boat does not only move in bright sunshine, but also with a cloudy sky.



Top: Solar boats in the water Source: VCP

Bottom: Experiments with solar boats

