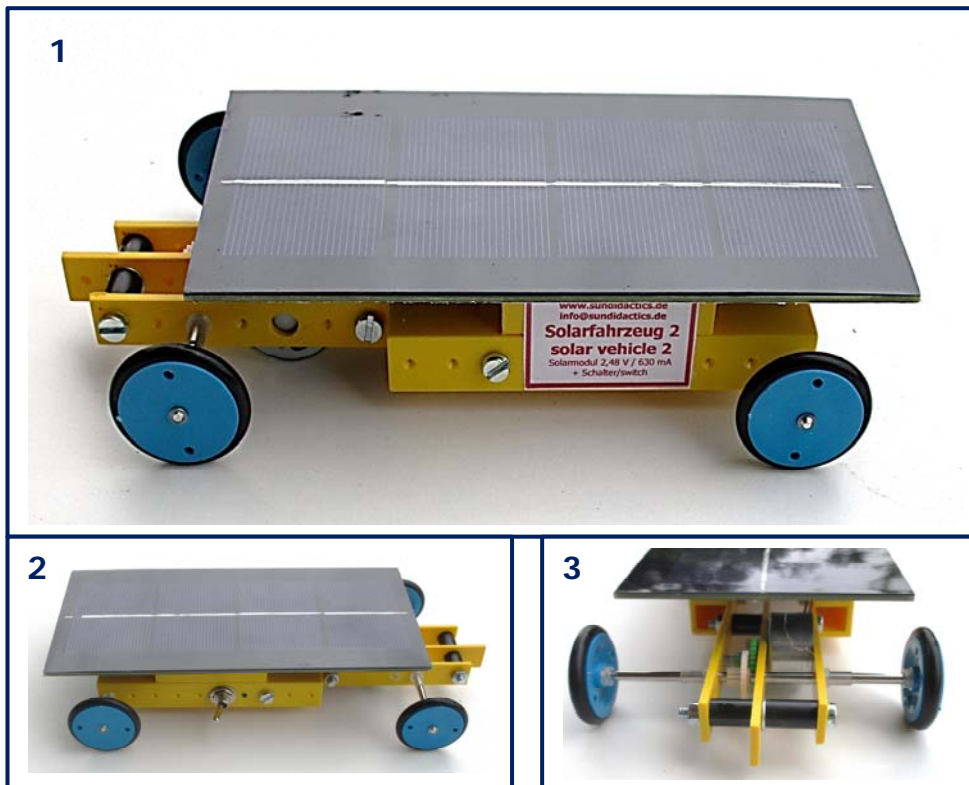


## The SUSE solar vehicle 2

Powerful solar vehicle with direct drive with solar module SUSEmod6 2.48 V – 630 mA



### The solar vehicle 2

In fig. 1 the solar module SUSEmod6 (2.48 V/630 mA) with 4 solar cells in intern series connection is visible on top of the vehicle.

Between the front wheels there is a 2-stage gear and a solar motor, which is powered directly by the solar current of the solar module. With the help of a switch the vehicle can be switched off, so that is doesn't drive off in the bright light unintentionally. Fig. 2 shows the switch on the right-hand side of the vehicle, in fig. 3 the motor and gear are visible.

### The SUSE solar vehicle 2

The SUSE solar vehicle 2 is an electric vehicle with a solar motor and a 2-stage gear. The powerful solar module (SUSE solar module 6, 2.48 V – 630 mA) mounted on top of the vehicle provides the electric energy for the driving operation and is connected to the electric motor via a switch.

The vehicle drives outdoors on smooth surfaces in the bright sunshine and also under a clouded sky. Indoors the light intensity doesn't suffice, but the vehicle can be operated by illumination with a halogen spot light. The update, the solar vehicle 3, contains a GoldCap as energy storage, which can be charged under multiple lighting conditions and provides energy even for a drive in poorly lit rooms. The vehicle can be delivered as a construction kit or as a finished device.

#### Technical data:

Vehicle length: 200 mm  
Wheel diameter: 31 mm

Vehicle width: 95 mm  
Solar module length: 160 mm

Vehicle height: 42 mm  
Solar module width: 75 mm

Electric data with  $S = 1000 \text{ W/m}^2$  and  $25^\circ\text{C}$ :

$U_{oc}$  : 2.48 V  
 $I_{sc}$  : 630 mA  
 $P_{max}$  : 1.2 W