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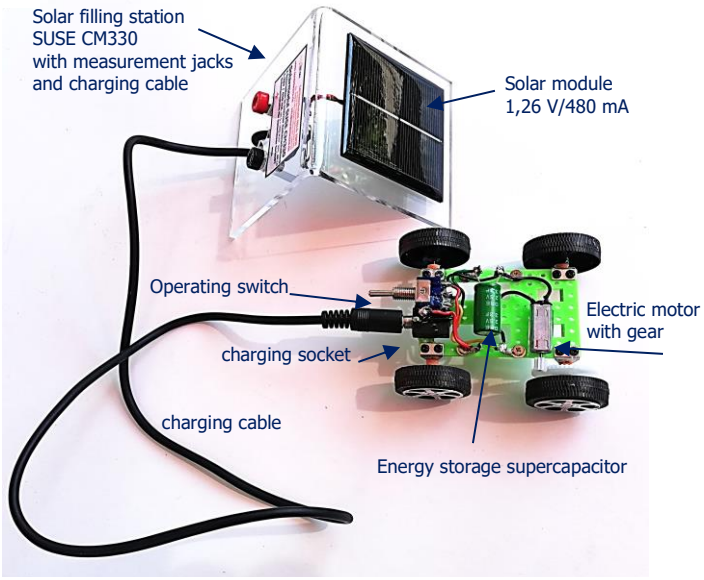
The SUSE solar runabout turboST

Solar electric mobility: Solar vehicle with supercapacitor for energy storage and external solar filling station SUSE CM330 for primary school and lower secondary school

QR solar runabout turboST

SUSE solar runabout turboST + external solar filling station SUSE CM330

On top of the basic vehicle, the solar runabout turboST includes a supercapacitor for energy storage, an operating switch, and a charging socket.
The vehicle comes with a solar filling station SUSE CM330, including a pair of measurement jacks and a charging cable. At the jack pair, measurements on photovoltaics can be conducted independently from the function as a filling station. Additionally the charging process while filling the vehicle can be measured.
The charging can be conducted outdoors in the natural sunlight or indoors with a halogen spot lamp or a red light lamp.



To charge the energy storage, the solar filling station is placed outdoors in the natural sunlight and adjusted towards the sun or southward. The charging cable is plugged into the charging socket of the vehicle and the operating switch is put into the "Charging" position. After 1-2 minutes the capacitor is charged, the charging plug is disconnected, the switch put on "OFF". The vehicle is now placed on flat ground, the switch put on "Drive" and the car quickly takes off! With one charge the vehicle drives quickly for about 30-50 m.
With a voltmeter, the capacitor charging can be measured and recorded at the solar filling station's jack pair. Many additional experiments on photovoltaics can be conducted with the solar filling station, an extensive experimentation manual on this is available.

Technical data SUSE solar runabout turbo ST:

Dimensions: 85mm x 70mm x 40mm, Operating switch (Charging, OFF, Drive), charging socket, energy storage supercapacitor 3,3F or 5F / 2,5V.

Technical data solar filling station SUSE CM330:

Dimensions: Device support made of plexiglass, 160 mm x 80 mm x 3 mm, bent to 75°, solar module 60 mm x 60 mm, 1,26 V/480 mA, with pair of measurement jacks for 4 mm banana plugs and charging cable 700 mm with phone jack 3,5 mm.

