

## Solar Suitcase

Here are listed all the different components which are needed for a Solar Suitcase. See also the „Construction manual“ for the Solar Suitcase.

### Material List

1. Suitcase: hard shell with wheels, not too small
2. Solar Panel: 12V, 20-40W
3. Battery: 12V sealed (maintenance free) lead acid, 17-22 Ah
4. Charge Controller: 12V, 6A or more
5. Inverter: 12V → 115V or 230V (according to power grid), 100-300W
6. 3 or 4 light switches (rated at least 1A)
7. 3 or 4 LED lamps: 12V DC LED lamps and sockets 3-7W each
8. Wires:
  - 2m AWG14 or 2.5mm<sup>2</sup>
  - 2x 0.5m AGW12 or 4mm<sup>2</sup>
  - 3-5m/lamp AWG12 or 0,75mm<sup>2</sup>
9. Fuse and Fuse Holder: DC Fuse rated 10A (or 5A)
10. Female car cigarette lighter (multi-socket)
11. 12V USB adapter for cigarette lighter socket
12. Attachment material: screws, cable ties, tape, etc.
13. Optional: radio, ...

### Tool List

1. Different size and type of screw drivers
2. wire cutter
3. wire stripper if available
4. knife or cutter
5. pliers
6. power drill
7. saw
8. multimeter
9. soldering iron and tin/lead