**How to use the IBS portable solar kits**
This Solar Kit with up to 5A charge current is very powerful for mobile applications. The car can be placed in the shade while the solar system keeps your appliances powered up. For easy and flexible usage is the solar regulator integrated within solar kit.

With the Car Connection Kit CC4 with crocodile clips the solar kit is transferable from vehicle to vehicle for emergency charge request.

Mount the Charge Meter on top of the Alum frame (where sticky Pad is) and place the solar kit in the way Charge Meter reading shows maximum (do not stand between panel and sun while you adjust panel). Best is to lean it against a tyre bumper, camping chair, etc. In tropical areas place it flat on the ground. Multiple adjustment during the day increases performance significantly.

**Features Solar Regulator**
If no Battery is attached LED Battery missing is on, LED beside 3 battery symbols indicates charge level:

- green: Battery full
- orange: Battery half full
- red: Battery empty, recharge.

**Charge Meter Display**
Charge

<table>
<thead>
<tr>
<th>Charge</th>
<th>Charge</th>
<th>Batt. Full</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;2.5A</td>
<td>&gt;4A</td>
<td>&gt;2A</td>
</tr>
</tbody>
</table>

**Transportation**
An optional carry bag in marine strength is available for storing and travelling.
**General Information**

- **Energy production and consumption**
  The solar kit generates up to 5.0 A per hour depending on location on the globe, season, temperature and if it is directed correctly into the sun. On an average day (8 hours) it generates approximately 3A*8h=24Ah (Energy per day in)
  
  A compressor fridge has as example a consumption of 1A over 24hours: 1A*24h=24Ah (Energy per day out)

  In this calculation sample energy consumption is compensated by solar kit, This set up extends your camp time to several days without the need to start the engine.

- **Consumption of appliances**
  Laptop: approx 60-120W, 10A*2h=20Ah
  Water pump: 20W, 2A*0.5h=1Ah
  LCD-TV with inverter: 60W, 6A*4h=24Ah
  Hammer drill with inverter: 400W, 40A*1h=40Ah
  Fluorescence Light: 20W, 2A*4h=8Ah
  Air compressor: 24A*0.25h=6Ah

**Applications**

**General Information**

In vehicle applications the installation of an IBS Dual Battery System is recommended. Start priority is maintained and if excess charge from the auxiliary battery is available also the starter battery is automatically charged.

The new IBS LB52 or LB56 Low Battery Protection with micro controller and solid state technology protects the batteries from deep discharge. State of the art electronic short circuit detection offers maximum protection for your installation.

For mobile AC power the IBS Ultra Sine Inverter (150/400/800/1600W) offer highest reliability even if things are going very rough.

This warranty shall not apply to any product which has been subject to any misuse, negligence and accident or has been used (or opened, broken seal) for any other purpose than was designed.

2 year: Installation done by an IBS approved auto electrician.
1 year: Other installations.

**Specifications**

- **Solar cells, Monocrystalline** 2x40Wp
- **System voltage** 12V
- **Solar charge current** 4.7A DC max
- **Solar regulator IBS uSun** 6A DC max
- **Charge Meter indication** 0.5/1/2/3/4/5A/Status
- **Charge mode IBS solar regulator** bulk, absorption, float
- **Wiring length compens.**
- **Max charge voltage** 13.1-14.0V DC
- **Weight solar kit SK4** 6.8kg
- **Batteries supported** Acid/Deep Cycle
- **Wiring length** 5m/IP66 connector
- **Wiring size** 2x2.5mm2
- **Plug system IP66** Solar
- **Carry Bag marine type** optional

**Accessory:**
- CC4: Car Connection with battery Pole Crocodile clips

**Wires:**
- red: Battery Plus +
- black: Battery Minus -

**Protection Solar Regulator:**
- against wrong polarity
- against overload
- no Battery present

**MADE IN SWITZERLAND**

**Distributor:**

IBS Intelligent Battery System
Seestrasse 24
3600 Thun / Switzerland
Ph./Fax: +41 (0)33 221 06 16/17
www.ibs-tech.ch
www.ibs-dual-battery.ch
www.ibs-inverters.ch