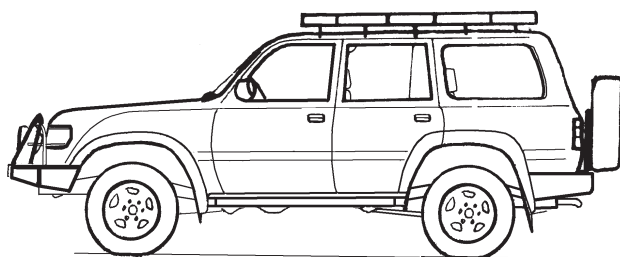


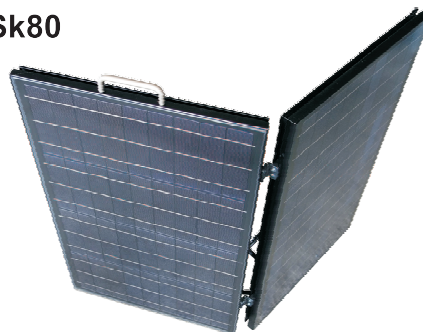
**IBS** Intelligent  
Battery  
System  
*the ultimate Battery System*

# SK80 Portable Solar Kit *new!*



## Installation

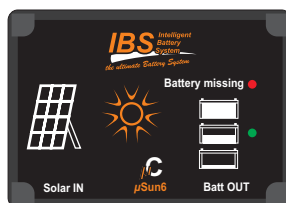
### Solar Kit Sk80



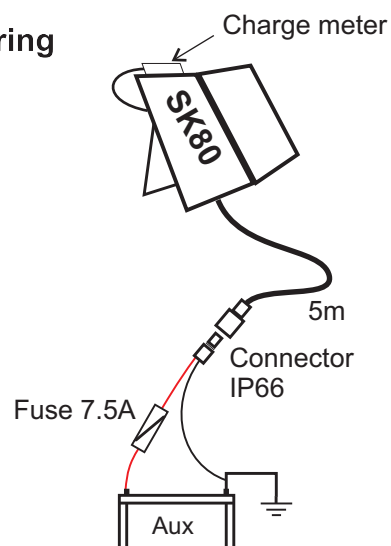
### Solar regulator uSun6 Charge meter



### uSun regulator



## Wiring



## Users Manual

### •How to use the IBS portable solar kits

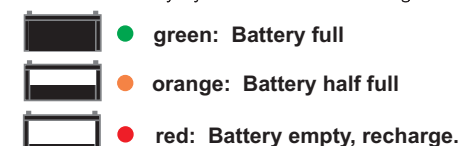
This Solar Kit with up to 5A charge current is very powerful for mobile applications. The car can be placed in the shade while the solar system keeps your appliances powered up. For easy and flexible usage is the solar regulator integrated within solar kit.

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:



### •Charge Meter Display

Charge I>2.5A	Charge I>4A	Batt. Full I>2A
<div>Status</div> <div>5A</div> <div>4A</div> <div>3A</div> <div>2A</div> <div>1A</div> <div>0.5A</div>	<div>Status</div> <div>5A</div> <div>4A</div> <div>3A</div> <div>2A</div> <div>1A</div> <div>0.5A</div>	<div>Status</div> <div>5A</div> <div>4A</div> <div>3A</div> <div>2A</div> <div>1A</div> <div>0.5A</div>

### •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 of location on the globe, season, temperature and if it is directed correctly into the sun. On an average day (8 hours) it generates approximately  $3A \cdot 8h = 24Ah$  (Energy per day in)  
**A compressor fridge** has as example a consumption of 1A over 24hours:  $1A \cdot 24h = 24Ah$  (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,  $10A \cdot 2h = 20Ah$   
 Water pump: 20W,  $2A \cdot 0.5h = 1Ah$   
 LCD-TV with inverter: 60W,  $6A \cdot 4h = 24Ah$   
 Hammer drill with inverter: 400W,  $40A \cdot 1h = 40Ah$   
 Fluorescence Light: 20W,  $2A \cdot 4h = 8Ah$   
 Air compressor:  $24A \cdot 0.25h = 6Ah$

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 System  
*the ultimate Battery System*

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[www.ibs-dual-battery.ch](http://www.ibs-dual-battery.ch)  
[www.ibs-inverters.ch](http://www.ibs-inverters.ch)

**MADE IN SWITZERLAND**

Distributor:

SK80I\_e\_1 / 25.9.2014

## Applications

### General Information

In vehicle applications the installation of a 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 LBP8 or LBP16 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	2x2.5mm <sup>2</sup>
Plug system IP66	Solar
Carry Bag marine type	optional

### Accessory:

CC4: Car Connection with battery Pole Crocodile Clips

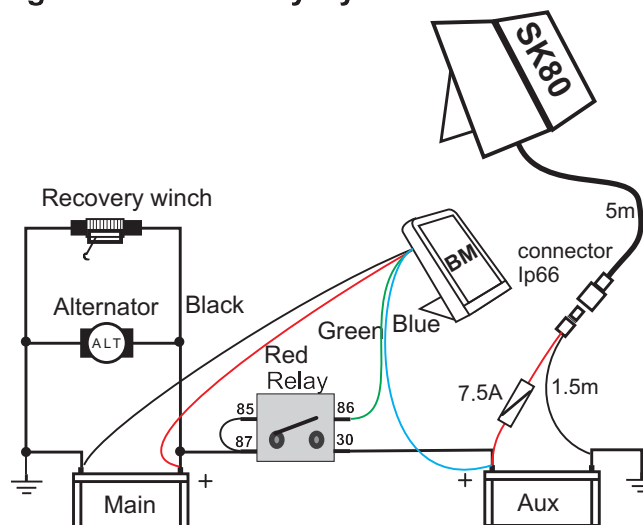
### Wires:

red: Battery Plus +  
 black: Battery Minus -

### Protection Solar Regulator:

- against wrong polarity
- against overload
- no Battery present

## Wiring IBS Dual Battery System



CE

