

Instructions Flexopower rollable solar kit

SK79 79W / SK158 158W / SK237 237W

Carefully follow the instructions below for successfully operating the SK79 / SK158 / SK237 solar kit.

The Flexopower SK79 / SK158 / SK237 4x4 kit is based on glass free, flexible solar panel technology and includes everything needed to charge/manage the batteries from the sun: solar panel, protective carry bag, solar regulator, cabling, connectors and user manual. Easy to install, plug and play principle. The Flexopower SK79 / SK158 / SK237 4x4 kit is suitable for marine, desert and tropical environments.

1. Caution

- Do not fold SK79 / SK158 / SK237 solar panels
- Do not flatten SK79 / SK158 / SK237 solar panels when rolled up
- Roll up SK79 / SK158 / SK237 solar panels to the size of the bag only, do not roll up to smaller size
- Do not erect under or near power lines
- Do not stand on, walk or drive over SK79 / SK158 / SK237 solar panels
- Do not tamper with cabling, equipment and connectors
- Do not pull on lead cables
- Always observe polarity: red/brown cable (+) positive; black/blue cable (-) negative
- Always use with a solar regulator with correct capacity
- The SK79 / SK158 / SK237 kit as described here is suitable only for **12VDC** systems. Please contact IBS GmbH or your local dealer if you operate a 24, 36 or 48VDC system.

2. Complete kit consists of

Rollable Panel	SK79(SK79W)	SK158(158W)	SK237(237W)
Rollable glass free solar panels with eyelets and lead wire with 50A Anderson grey connector	1x	2x	3x
Protective carry bag with printed on instruction	1x	1x	1x
Solar regulator with LED display	1x 14A, 12V	1x 14A, 12V	1x 20A, 12V
LCD remote display [V,A]	no	no	no
Special ripcord twin core cable set 4mm ² with 50 Amp Anderson grey connectors to connect panel to regulator (long cable)	1x 10m cable	2x 10m cable	3x 10m cable
User Manual	1x	1x	1x

Please note based on client feedback, no battery cable is included.

The power output of the Flexopower SK79 is suitable for smaller appliances and shorter stays in camps without power. The power output of the Flexopower SK158 is suitable for 1-3 fridges and longer stays in camps without power. The power output of the Flexopower SK237 is suitable for extra heavy loads and long stays in camps without power.

3. Assembly and disassembly (*observe correct polarity: plus to plus, negative to negative*)

- 3.1 Mount solar regulator in a suitable position as close as possible to battery. Ensure solar regulator is protected from the elements, engine oil, engine heat etc.
- 3.2 Connect the solar regulator to the battery terminal at its battery symbol. *Please note the battery cable is not included in kit.*
- 3.3 The solar regulator will now switch on.
- 3.4 Open carry bag and take out the SK79 / SK158 / SK237 solar panels.
- 3.5 Position SK79 / SK158 / SK237 solar panels where it will have full day sun exposure. Temporarily leave solar panel rolled up (no current in cable) and keep it until point 3.8. (this is a safety precaution eliminating the possibility of generating sparks when connecting the solar panel to the solar regulator).
- 3.6 Connect SK79 / SK158 / SK237 solar panels to the 10m cable set via 50Amp Anderson grey connectors.
- 3.7 Connect the 10m cable set to the solar regulator via 50Amp Anderson grey connectors.
- 3.8 The SK79 / SK158 / SK237 solar panels are now connected to the solar regulator and battery. Unroll the solar panels and expose to full day sun exposure. The deep cycle battery is being charged now.
- 3.9 Secure SK79 / SK158 / SK237 through its eyelets if required.
- 3.10 The reverse order applies when disassembling. The solar regulator may be left permanently connected to the battery terminals.

4. Maintenance, transport and storage

- Regularly wipe SK79 / SK158 / SK237 solar panels with damp clean cloth
- Always transport and store SK79 / SK158 / SK237 solar panel upright in carry bag
- Dry and wipe clean SK79 / SK158 / SK237 solar panel for storage
- Refer to solar regulator manufacturer's instructions

5. Warranty

- 5.1 The SK79 / SK158 / SK237 is covered by a 2 year manufacturing defect warranty.
- 5.2 Refer to solar regulator manufacturer's warranty.
- 5.3 All warranties and claims are null and void if the unit, connection and components have been tampered with.
- 5.4 All warranties and claims are null and void if the unit, connection and components have been operated beyond their limitations.
- 5.5 All warranties and claims are null and void in the event of reversed polarity.
- 5.6 All warranties and claims are null and void if cautions under 1) have not adhered to.

6. Features SK79 / SK158 / SK237 4x4 kit

- Flexible solar panel with eyelets on each side for proper securing
- Expansion ready to conveniently add additional solar panels if needed
- Easy to set up. Plug and play principle
- More low light (overcast) and high temperature tolerant than glass solar panels
- Delivers up to 20% more energy into the battery than glass solar panels
- Virtually unbreakable
- Water, hail and dust proof
- Heavy duty protective bag with carry handle for comfort
- User manual

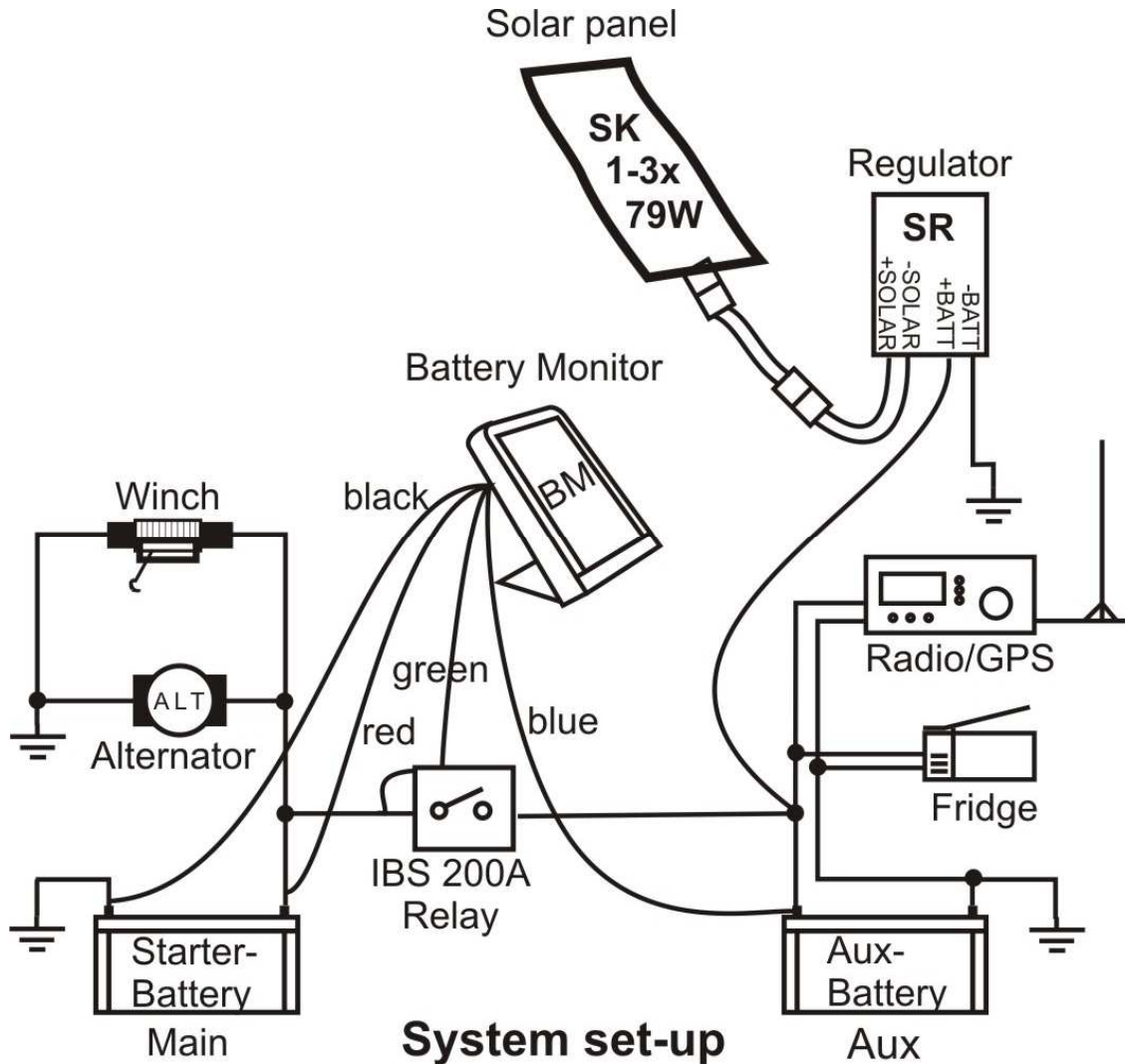
7. Specifications SK79 / SK158 / SK237 Solar Panel Rollable Kit

IBS Order Number:	SK79	SK158	SK237
Specifications	Namib 79™	Kalahari-158™	Kalahari-237™
Pmax, Power	79W	158W	237W
Imp, Current at max. Power	4.1A	8.2A	12.3A
Vmp, Voltage at max. Power	19.2V	19.2V	19.2V
Weight of panel	3.0kg	2x 3.0kg	3x 3.0kg
Dimensions deployed L x W x T	298x39x0.15cm	298x78x0.15cm	298x117x0.15cm
Dimensions rolled up Height x Diameter	39x27cm	39x27cm	39x27cm
Max. operating temperature	85°C	85°C	85°C

8. Disclaimer

Flexopower (Pty) Ltd and IBS GmbH shall not be held liable for any loss or damage suffered from the use of this system.

Flexopower (Pty) Ltd IBS GmbH reserves the right to change the content of this manual without prior notice.



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