

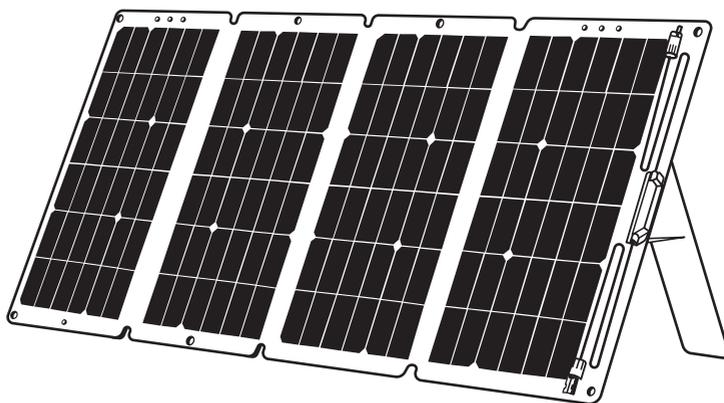
Please, read this manual
carefully before use!

Owner's Manual



Portable solar panel

KS SP120W-4
KS SP210W-4





Thank you for opting for **Könnner & Söhnen®** products. This manual contains a brief description of safety, setup and use. More information can be found on the official importer's website in the support section: **konner-sohnen.com/manuals**

You can also go to the support section and download the manual by scanning the QR code or on the website of the official importer of **Könnner & Söhnen®** at **www.konner-sohnen.com**



*Please, read this manual
carefully before use!*

The manufacturer of **Könnner & Söhnen®** products reserves the right to make changes that may not be reflected in this manual, namely:

- The manufacturer reserves the right to make changes in the product design, configuration and construction.
- The images and drawings in this manual are for reference only and may differ from the actual components and inscriptions on the products.

Contact information that you are free to use in case of any problems can be found at the end of this manual. All information in this manual is correct to the best of our knowledge and belief at the date of its publication. The current list of service centers can be found on the official importer's website at **www.konner-sohnen.com**



ATTENTION – DANGER!



Failure to follow the recommendations marked with this sign may lead to serious injury or death of the operator or third parties.



IMPORTANT!



Useful information while operating the machine.



ATTENTION – DANGER!



1. Please, do not hit, throw, prick the product, squeezing or bending the product and protect it from falling down to avoid irreversible damage.
2. Please, keep it away from humidity to ensure its long service life.
3. The actual power of a solar panel charger is affected by solar illumination, exposure angle and ambient temperature, so the difference between the nominal power and the actual power of solar panel charging is a normal phenomenon.
4. The intensity of sunlight must be high and the pane is should be as perpendicular to the light as possible.
5. When absorbing sunlight to charge, the solar panel surface must not be shadowed.

IMPORTANT SAFETY INFORMATION

1

Please notice the following safety precautions carefully.

1. Do not make a short-circuit. Please avoid storing the product together with metal objects, such as coins, jewelry, keys, etc.
2. Do not water or heat the product, such as putting it in the fire or liquid.
3. Do not place the product in a highly humid and dusty environment.
4. Do not disassemble the device in any way.
5. Do not drop, put heavy objects on or strongly impact the product.

6. Please store this product in a place where cannot be reached by people who lack experience and relevant knowledge, unless there is supervision or guidance by personnel responsible for their safety.
7. Please avoid children operating this product.
8. Do not cover the product with towels or clothing when using it.
9. Getting hot when being charged is a normal phenomenon, please be careful.
10. Please disconnect with the product in time if the appliances are fully charged.
11. Please use the product normally and avoid electric shock.
12. Please deal with the scraps according to the regulations.

FEATURE

- Environment-friendly, practical and convenient for outdoor power supply.
- Foldable design with portable size, easy to carry with just a single hand.
- The high-quality solar monocrystalline silicon provides high charging efficiency and long service life.
- The product is compatible with the portable power stations. You can convert and store solar power in a battery of portable power stations in the day and charge devices at night.



NOTE!



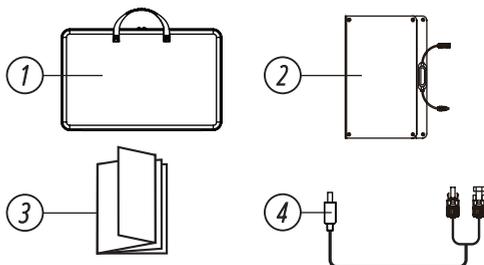
The portable power station should be purchased separately.

MAIN OVERVIEW

2

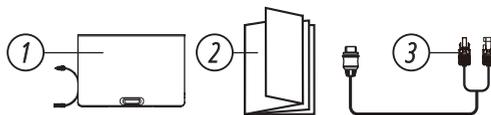
MODEL: KS SP120W-4

1. Protective Case
2. 120W Solar Panel
3. User Manual
4. MC4 to DC7909 Cable



MODEL: KS SP210W-4

1. 210W Solar Panel
2. User Manual
3. MC4 to XT60 Cable



IMPORTANT!



Manufacturer reserves the right to make changes and/or improvements in design, components set and technical attributes without notice and without incurring obligation. The pictures in this manual are schematical and may not match the parameters of original product.

TECHNICAL SPECIFICATIONS

3

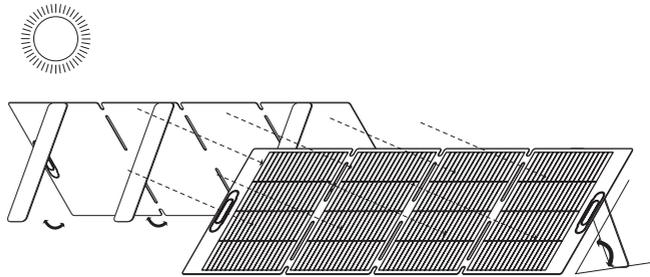
Model	KS SP120W-4	KS SP210W-4
Rated Solar Power	120W	210W
Operating Voltage	20,8V	19,44 V
Operating Current	5,76 A	10,8 A
Cell Type	monocrystalline silicon	monocrystalline silicon
Unfolded Dimensions	1370×616×4,0 mm	2070×681×3,0 mm
Folded Dimensions	616×381×25 mm	681×555×65 mm
Net weight	6 kg	5,3 kg
Output Ports	MC4 Solar Port to Output Chainable up to 360W	MC4 Solar Port to Output Chainable up to 600W

PRODUCT INSTRUCTION

4

HOW TO USE

Unfold the solar panel, place it perpendicular to the sunlight.



HOW IT WORK

Connect the solar panel with a cable to the portable charging station using the cable supplied with the model:

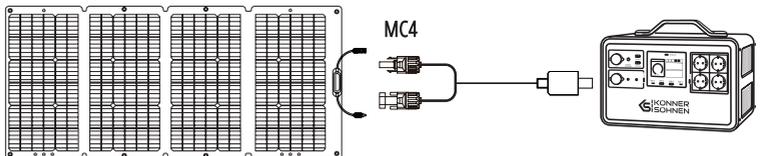
- KS SP120W - MC4 to DC7909
- KS SP210W - MC4 to XT60



NOTE!

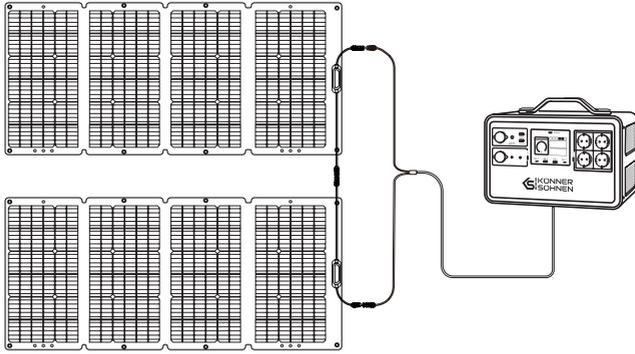


The portable power station should be purchased separately.



CONNECTING SOLAR PANELS

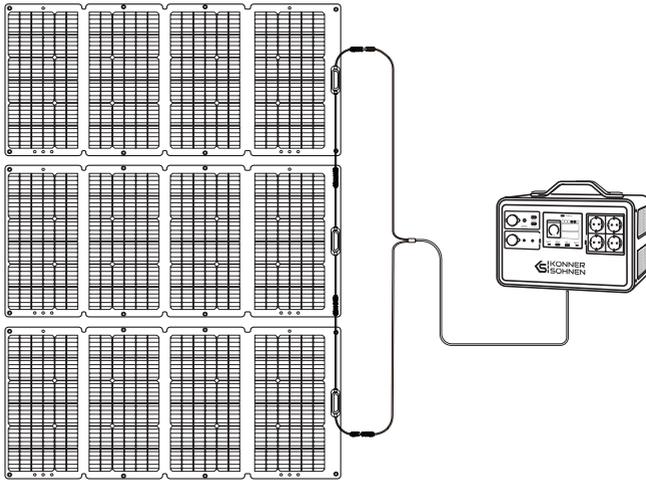
1. Connect two 120W/210W Solar Panels to two Ports
(Parallel connection is not supported).



Connect to your device

*The device needs to support the input voltage of 48V, otherwise it may damage the device!

2. Chain 3 solar panels to charge your device.
(Parallel connection is not supported).



Connect to your device

*The device needs to support the input voltage of 72V, otherwise it may damage the device!

1. What kind of devices can be charged by the 120W/210W solar panels?

Each 120W/210W solar panel has a pair of MC4 ports. You can use a solar extension cable to charge your devices via MC4 ports.

2. Can the 120W/210W solar panel output a full power of 120W/210W watts?

Yes, it can do this when under a best condition. It depends on the weather and the angle between the sunlight and the panels.

3. Is the 120W solar panel waterproof?

The 120W solar panel is made of waterproof material, which is durable for outdoor use.

4. Can I chain multiple 120W/210W solar panels together to use?

Due to its chainable feature, you can chain a maximum of three 120W/210W solar panels together via MC4 cable.

The international manufacturer warranty is 1 year. The warranty period starts from the date of purchase. In cases when warranty period is longer than 1 year according to local legislation please contact your local dealer. The Seller which sells the product is responsible for granting the warranty. Please contact the Seller for warranty. Within the warranty period, if the product fails because of defects in the production process, it will be exchanged on the same product or repaired.

All faults caused by the manufacturer during the warranty period will be eliminated free of charge. Warranty repair is carried out only if you have a fully completed warranty card, the Buyer's signature of acceptance of the warranty terms, as well as a document supporting the purchase (cash receipt, sales slip or invoice). In the absence thereof, as well as in the event of errors or corrections not authenticated by the seller's seal or illegible inscriptions in the warranty card or tear-off coupon, no warranty repair is carried out, no objections to quality are accepted and the warranty card is withdrawn by the service center as invalid. The device is accepted for repair clean and full.



EC Declaration of Conformity

Nr. 178

The following products have been tested by us with the listed standards and found in compliance with the European Community Electromagnetic compatibility Directive (EMC) 2014/30/EC.

Manufacturer: DIMAX INTERNATIONAL GmbH
Address: Flinger Broich 203, 40235 Duesseldorf, Germany
Product: Portable solar panel "Könner & Söhnen"
Type / Model: KS SP120W-4, KS SP210W-4

The statement is based on a single evaluation of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo. The manufacturer should ensure that all product in series production are in conformity with the product sample detailed in this report. The applicant should hold the whole technical report at disposal of the competent all the right.

Applied EC Directives: 2014/30/EC Electromagnetic compatibility Directive (EMC)
Directive 2011/65/EU (RoHS) as last amended by
Directive (EU) 2015/863

Applied Standards: EN 55032:2015+A11:2020
EN 55035:2017+A11:2020
IEC 62321-5:2013
IEC 62321-5:2013
IEC 62321-4:2013+AMD1:2017
IEC 62321-7-2:2017
IEC 62321-7-1:2015
IEC 62321-6:2015
IEC 62321-8:2017



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Fomin P.

P. Fomin

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We DIMAX INTERNATIONAL GmbH hereby declare that specified above conforms covering European Parliament and Council Directives, Electromagnetic compatibility Directive (EMC) 2014/30/EC of 26 February 2014. The CE mark above can be used under the responsibility of manufacturer. After completion of an EC declaration of Conformity and compliance with all relevant EC directives.

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