

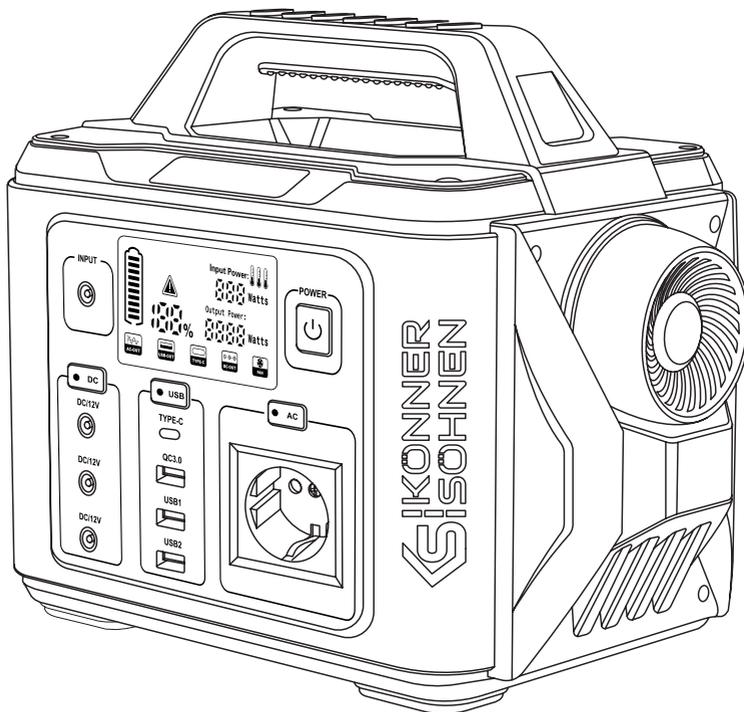
Please, read this manual
carefully before use!

Owner's Manual



Portable power station

KS 300PS
KS 1200PS-FC
KS 2200PS-FC
KS 3000PS-FC



INTRODUCTION



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

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



We care about the environment, therefore, we consider it expedient to save paper and leave in print a short description of the most important sections.



Be sure to read the full version of the manual before getting started!



Manufacturer reserves the right to make alterations into the generators, which may not be reflected in this manual. Pictures and photos of the product may vary from its actual appearance. At the end of this manual, You may find contact information which you are free to use in case of any issues occurrence.

All data, specified in this operation manual is the most up to date for the moment of its publishing. The current list of service centers you can find at the website of official importer: **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!



AC output voltage and frequency will be different depending on different countries or areas. Please refer to the actual product before using.

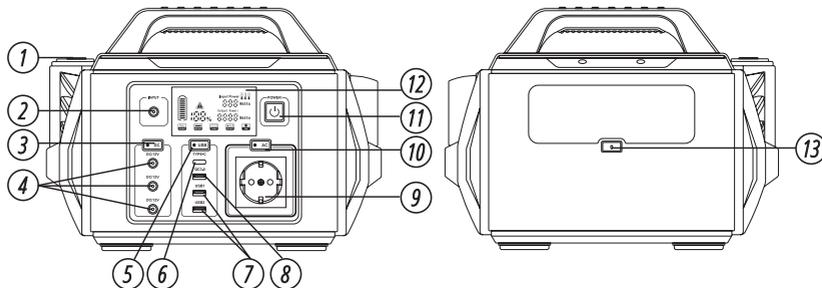
ABOUT THE UNIT

1

Thanks for purchasing our portable power station. Please read this manual carefully before use and keep it for review.

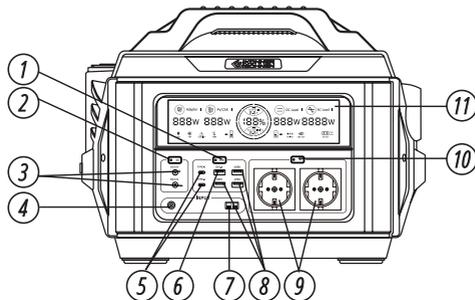
This manual helps you to operate this device correctly. The images in this manual are for reference only. Thank you!

MODEL KS 300PS

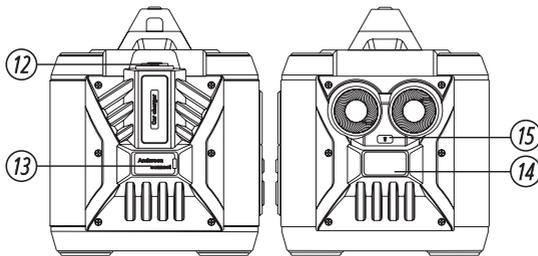


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|------------------------|----------------------|----------------------|
| 1. 12V car Port Output | 6. Type-C Output | 11. Power ON/OFF |
| 2. DC INPUT | 7. USB Outputs | 12. LED-display |
| 3. DC Output ON/OFF | 8. QC 3.0 Output | 13. LED light ON/OFF |
| 4. DC Outputs | 9. AC Output | |
| 5. USB Output ON/OFF | 10. AC Output ON/OFF | |

MODELS KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC



1. USB ON/OFF
2. DC Output ON/OFF
3. DC Outputs
4. DC Input
5. Type-C Outputs
6. QC 3.0 Output
7. Anderson 1
8. USB Output
9. AC Outputs
10. AC ON/OFF
11. LCD Display



12. 12V car Port Output
13. Anderson 2
14. LED Light
15. LED ON/OFF

ANDERSON 2 PORT CAUTIONS:

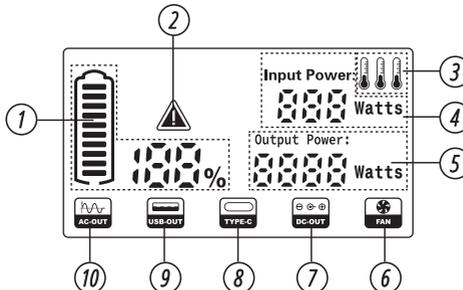
1. You should use the original charger or the charger with the same parameters (the voltage range is $25 \pm 0.2V$ and the current range is 5A-40A for models KS 1200PS-FC, KS 2200PS-FC, $28 \pm 0.2V$ and the current range is 5A-37A for model KS 3000PS-FC), and correctly connect it to the positive and negative poles of this port;
2. This port is a fast charging port, when the device is charged to 90% via it, the charging will stop to protect the device;
3. If the parameters of the charger do not match, the display of this device will light up while the charging will not start.

Model	KS 300PS	KS 1200PS-FC	KS 2200PS-FC	KS 3000PS-FC
Rated power	300W, Peak 600W	1200W, Peak 2600W	2200W, Peak 4000W	3000W, Peak 6000W
Capacity	296Wh, 20Ah/14.8V, (80000mAh, 3.7V)	1110Wh 50Ah/22.2V (300000mAh, 3.7V)	2220Wh 100Ah/22.2V (600000mAh, 3.7V)	3200 Wh 125Ah/25.6V (1000Ah, 3.2V)
Battery Type	high quality lithium-ion batteries			LifePo4 Batteries
Anderson 1 (30A) PV-Input	-	18V-30V, 8A Max	18V-30V, 8A Max	18V-30V, 8A Max
Anderson 2 (50A) QC-Input	-	25V/22A Max	25V/40A Max	-
Anderson 2 (37A) QC-Input	-	-	-	28V/37A Max
DC Charge input	19V/3A	25.5V/8A	25.5V/8A	25.5V/8A
AC Output	1x230V/50Hz	2x230V/50Hz	2x230V/50Hz	2x230V/50Hz
DC Output	3x12V/8A	2x12V±1V/8A	2x12V±1V/8A	2x12V±1V/8 A
USB Output	2x5V/2.4A	5V/2.4A	3x5V/2.4A	3x5V/2.4A
QC 3.0	5 V/3 A, 9 V/2 A, 12 V/1.5 A			
Type-C Output 1	PD 45W, 5V/3A, 9V/3A, 12V/3A, 15V/3A	PD 100W, 5V/3A, 9V/3A, 12V/3A, 15V/3A, 20V/5A		
Type-C Output 2		PD 18W, 5V/3A, 9V/2A, 12V/1.5A		
Solar charge input (PV-Input Anderson 1)	18V-30V/3A Max	Anderson 1, MPPT 200W	Anderson 1, MPPT 200W	Anderson 1, MPPT 200W
Cigar port output	12V/8A	12V/8A	12V/8A	12V/8A
LED Flashlight	3W	4W	4W	4W
Dimensions (LxWxH), mm	285x155x205	365x235x280	466x300x310	466x300x369
Weight, kg	3.3	11.5	21.5	40
Working Temp	-10 °C +40 °C	-10 °C +40 °C	-10 °C +40 °C	-10 °C +40 °C

LED DISPLAY

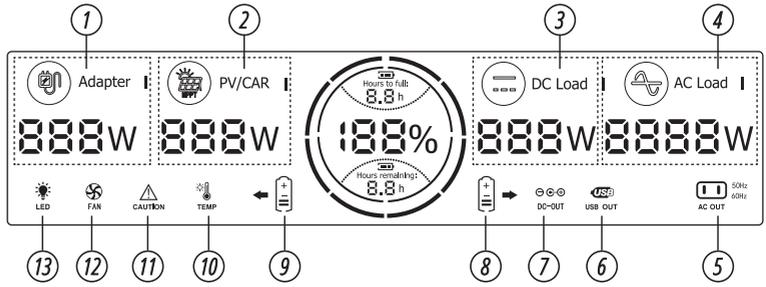
4

MODEL KS 300PS



1. Battery level
2. Function Failures
3. Temperature status indicator
4. Input power
5. Output power
6. Fan
7. DC out
8. Type-C out
9. USB out
10. AC out

MODELS KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC



- | | | |
|------------------------------|------------------------|---------------|
| 1. DC Input | 6. USB Output | 11. Fault |
| 2. Solar charging | 7. DC Output | 12. Fan |
| 3. DC Output Power indicator | 8. Discharge | 13. LED Light |
| 4. AC Output Power | 9. Charging | |
| 5. AC Output | 10. Temperature status | |

In models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC the LCD screen will shut down automatically when no outputs are activated within 60 seconds.

BATTERY LEVEL INDICATOR

For model KS 300PS show the percentage of the power. If it shows 0%, please charge it immediately. For models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC shows the percentage of the power. It's recommended to charge the power station when battery indicates less than 20%.

FAN INDICATOR

The fan automatically turns on when the battery temperature gets high.

CURRENT INPUT

For model KS 300PS show the current input power in watts. For models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC shows the current input power in watts and provides remaining charging time in hours under current input.

CURRENT OUTPUT

For model KS 300PS show the current output power in watts.. For models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC shows the current output power in watts and provides remaining usage time in hours under current output.

TEMPERATURE STATUS INDICATOR (FOR MODEL KS 300PS)

- Green light:** Under normal temperature
- Yellow light:** Cooling fan starts working when the battery temperature is over 50C⁰
- Red light:** Over-temperature warning indicates that the temperature of the product is too high. Please cool down before using it again.

FUNCTION FAILURES WARNING

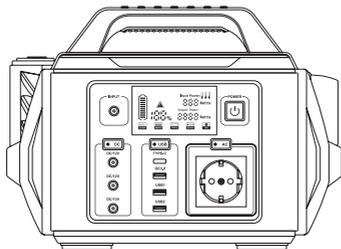
When short-circuit, low voltage, or exceeding maximum current/power limit take place, the Function Failure sign will show on display, and the corresponding outlet indicator will flash simultaneously for 60 seconds. At the same time, it automatically stops running immediately. Please remove the overloaded devices and then restart the power station to resume work.

1. POWER ON/OFF

For model KS 300PS: Turn on the product: Press and hold the master POWER button for 2 seconds to turn on the product, the LED indicator light and the display screen will light up.

Turn off the product: Press and hold the master POWER button for 2 seconds to turn on the product, the LED indicator light and the display screen will turn off.

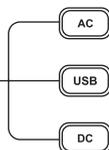
It will switch off within 10 seconds automatically when there is no load.



2 seconds



activation



Please make sure the product is turn on (power icon), or you can not turn on AC/DC/USB output.

2. DC OUTPUT ON/OFF

For model KS 300PS: Turn on DC output: Press and hold the DC power button to turn on the product, the corresponding LED indicator light will light up and the display screen will show 

Turn off DC output: Press and hold the DC power button to turn off the product, the corresponding LED indicator light and the display screen  will turn off.

It will switch off within 1 hour automatically when there is no load.



SmartPhone, Digital camera, Tablet, Etc.



Support DC12V Devices, such as Vacuum Cleaner, Inflation Pump, Electric wrench, car fridge, etc.

For models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC: Turn on DC output: Press the DC power button  to turn on DC output, the corresponding indicator light will light up and the display screen will show  DC output will switch off within 1 hour automatically when there are no loads (less than 2W).



Turn off DC output: Press the DC power button  to turn off the product, the corresponding indicator light and the display screen  will turn off.



Support DC12V Devices, such as Vacuum Cleaner, Inflation Pump, Electric wrench, car fridge, etc.

3. USB OUTPUT ON/OFF

For model KS 300PS: Turn on USB output: Press and hold the USB power button to turn on the product, the corresponding LED indicator light will light up and the display screen will show  and 

Turn off USB output: Press and hold the USB power button to turn off the product, the corresponding LED indicator light and the display screen  and  will turn off.

For models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC: Turn on USB output: Press the USB power button  to turn on USB/TYPE-C output, the corresponding indicator light will light up and the display screen will show  →  DO-OUT. USB output will switch off within 1 hour automatically when there are no loads (less than 1W).



Turn off USB output: Press the USB power button  to turn off the product, the corresponding indicator light and the display screen  →  DO-OUT will turn off.



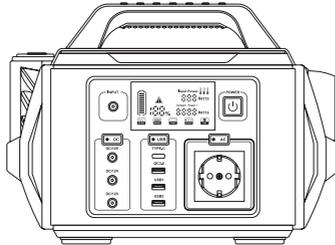
SmartPhone, Digital camera, Tablet, Etc.

4. AC OUTPUT ON/OFF

For model KS 300PS: Turn on AC output: Press and hold the AC power button for 2 seconds to turn on the product, the corresponding LED indicator light will light up and the display screen will show .

Turn off AC output: Press and hold the AC power button for 2 seconds to turn off the product, the corresponding LED indicator light and the display screen  will turn off.

It will switch off within 3 hour automatically when there is no load.



According to the power station you currently have, limited device wattage <math><300W</math>, such as laptop, fan, TV, CPAP, etc can be charged. AC will shutdown when it's short circuited or power overloaded. Remove the device to recover from short circuit or overpower protection.

For models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC: Turn on AC output: Press and hold the AC power button  for 2 seconds to turn on the AC output, the corresponding indicator light will light up and the display screen will show Frequency  →  DO-OUT. AC output will switch off within 3 hours automatically when there are no loads (less than 5W).

Turn off AC output: Press and hold the AC power button  for 2 seconds to turn off the product, the corresponding LED indicator light and the display screen  DO-OUT will turn off.

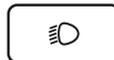
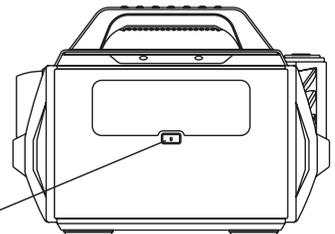


According to the power station you currently have, Limited device wattage (for model KS 1200PS-FC <math><1200W</math>, for model KS 2200PS-FC <math><2200W</math>, KS 3000PS-FC <math><3000W</math>), such as laptop, Fan, TV, CPAP, Etc can be charged. AC will shut down when it's short circuited or power over loaded. Remove the device to recover from short circuit or over power protection.

5. LED LIGHT

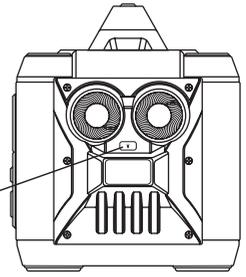
For model KS 300PS: Turn on LED light: Press and hold the LED button for 2 seconds to turn on the light, then one more click to switch the modes, it's „LED Lighting mode“, „LED SOS mode“, „LED Flashing mode“.

Turn off LED light: Press and hold the LED button for 2 seconds to turn off the light.



For models KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC: Turn on LED light: Press and hold the LED button  for 2 seconds to turn on the light, and the display screen will show . One more click to switch the modes, including „LED Lighting mode“, „LED SOS mode“, „LED Flashing mode“.

Turn off LED light: Press and hold the LED button  for 2 seconds to turn off the light.



HOW TO CHARGE THE PORTABLE POWER STATION?

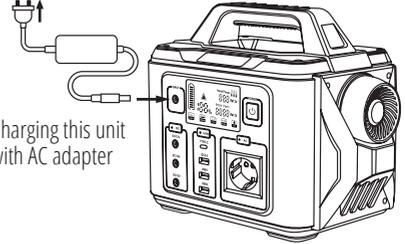
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FOR MODEL KS 300PS

Charge by AC adaptor: Please connect our original adaptor to the household AC socket, connect the DC plug of standard charging adapter with the DC input interface  of this product, and you'll know the unit is charging when the battery icon  lights up with the light twinkling at the same time. When the product is fully charged, the battery icon will fully light. After the power station is fully charged, please remove the charger in time.

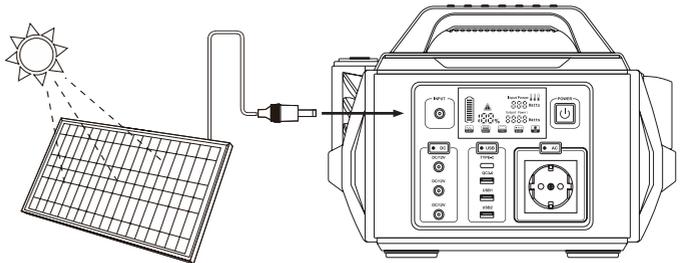
AC Socket

Charging this unit with AC adapter



Charge by solar panel: Place your solar panel where it will get as much direct sunlight as possible.

Plug the output of the solar panel (DC 5.5x2.1mm) into the input of the unit to start charging. Connect with the DC input interface  of this product. You'll know the unit is charging when the battery icon  lights up. When the product is full of power, the battery icon will fully light.



FOR MODELS KS 1200PS-FC, KS 2200PS-FC

Charging by DC input input (7.9x5.5x0.9mm)(12V~30V, 8A max/250W max):

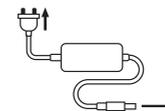
The icon  will light up, show the current input power in watts

 Adapter

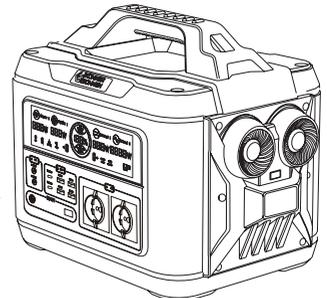
888W

and provide remaining charging time in hours under current input, and the percentage of the battery.

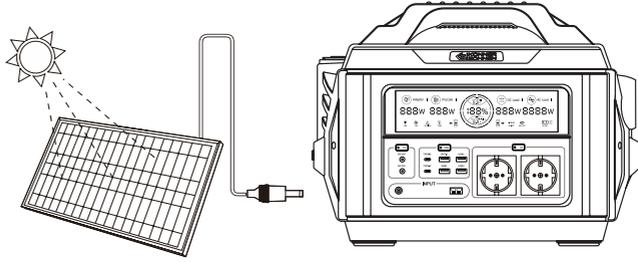
AC Socket



Charging this unit with AC adapter

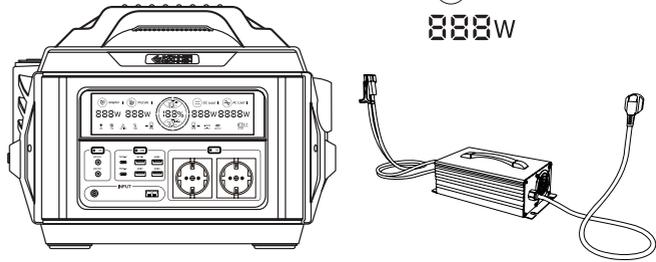


Charging by DC input or Anderson 1 (18V~30V, 8A max/200W): The icon  will light up, show the current input power in watts  and provide remaining charging time in hours under current input, and the percentage of the battery. **888W**



Charging by Anderson port 2 (25V, 20A max / 500 W max for model KS 1200PS-FC, 25W, 40A max / 1000 W max for model KS 2200PS-FC, 28V, 37 A max /1000 W max for model KS 3000PS-FC):

The icon  will light up, show the current input power in watts and provide remaining charging time in hours under current input, and the percentage of the battery.  Adapter



FREQUENTLY ASKED QUESTIONS

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1. Can the product be carried on the plane?

No. According to international air transport standards, the lithium battery should not exceed 100Wh. You can not board the plane with the product because the built-in battery is 296Wh for model KS 300PS (1110Wh for model KS 1200PS-FC, 2220Wh for model KS 2200PS-FC, 3200Wh for model KS 3000PS-FC).

2. Why the device sometimes power is not available within 300W for model KS 300PS(1200W for model KS 1200PS-FC, 2200W for model KS 2200PS-FC, 3000W for model KS 3000PS-FC)?

- The power station's power is less than 20%, and it needs to be charged in time.
- The instantaneous starting power of your equipment is larger than the peak power of the power station, or the nominal power of the equipment is larger than the actual power of our power station. It is recommended to choose our larger power products.

3. Why is there a sound when the product works?

The power station built-in cooling fans system. The built-in fan can better help the product to dissipate heat to achieve a high conversion rate. It is common to have a slight noise during use.

4. Is the charger(adaptor) heating up normally while the product is charging?

It is normal for the charger to heat up during charging. The standard charger conforms to national safety standards.

PRODUCT APPLICATION SKILLS

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1. This product has high-quality built-in lithium-ion battery, which has no memory but high-capacity, and it is durable. However, we still recommend you to apply between 10C°~30C°, in order to obtain the optimal charging capacity.
2. When charging, in order to avoid interference, please keep it away from TV, radio and other devices.
3. If the device has not been used for a long time, please disconnect the cable and store it well.
4. Some portable devices may need to be set in charge mode to charge, see the corresponding equipment manual for more information.
5. After starting, if there is no any output, it displays to automatically shut down within 60 seconds, so as to achieve better energy-saving effect.
6. Please deal with scrap products in accordance with the regulations, do not treat the built-in battery as a household garbage, so as not to cause the explosion and pollution.
7. Your device has an internal, non-removable, rechargeable battery. Do not attempt to remove the battery, as you may damage the device.



To preserve lifespan recharge every 3 months



Don't disassemble



Use original or certified cables



Don't expose to liquids



Avoid dropping



Avoid extreme temperatures

WARRANTY SERVICE TERMS

8

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. 143

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, Low Voltage Directive 2014/35/EC.

Manufacturer: DIMAX INTERNATIONAL GmbH
Address: Flinger Broich 203, 40235 Duesseldorf, Germany
Product: Portable power station "Könner & Söhnen"
Type / Model: KS 300PS, KS 1200PS-FC, KS 2200PS-FC, KS 3000PS-FC

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)
2014/35/EU Low Voltage
Directive 2011/65/EU (RoHS) as last amended by
Directive (EU) 2017/2102

Applied Standards: EN IEC 62368-1:2020+A11:2020
EN 55032:2015+A11:2020, EN 55035:2017+A11:2020
EN IEC 61000-3-2:2019/A1:2021, EN 61000-3-3:2013+ A1:2019
EN 61000-4-2:2009, EN IEC 61000-4-3:2020,
EN 61000-4-4:2012, EN 61000-4-5:2014+A1:2017,
EN 61000-4-6:2014, EN 61000-4-8: 2010,
EN IEC 61000-4-11:2020
IEC 62321-4:2013& IEC 62321-4:2013+A1:2017&
IEC 62321-7-2:2017 & IEC 62321-6:2015 & IEC 62321-8:2017&
IEC 62321-3-1:2013 & IEC 62321-7-1:2015



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General director: Fomin P. *P. Fomin*

DIMAX
International
GmbH
Steuer-Nr: 103 5722 2493
UStIdNr: DE296177274

We DIMAX INTERNATIONAL GmbH hereby declare that specified above conforms covering European Parliament and Council Directives, 2014/35/EC Low Voltage Directive of 26 February 2014, 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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