

Please, read this manual
carefully before use!

Owner's Manual

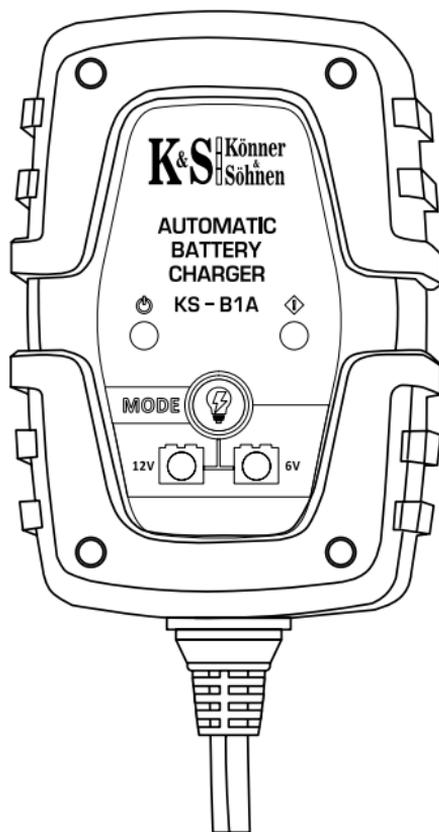


TRADITIONELLE DEUTSCHE QUALITÄT

K&S
Könner
&
Söhnen

Automatic Battery Charger

KS B1A





Thank you for your purchase of **Könner & 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: **ks-power.de/betriebsanleitungen**.

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 Könner & Söhnen products: **www.ks-power.de/en**



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.ks-power.de/en**



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.

INTENDED USE

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This automatic battery charger is intended for charging 6 V / 12 V lead-acid batteries. It is used to charge batteries of generators, cultivators, motorcycles, snowmobiles, boats, four-wheelers, etc., with a capacity of up to 32 A/h.

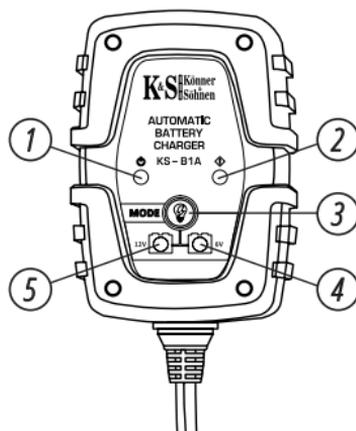
After selecting the required voltage, the charging process is carried out automatically.

INSTRUCTIONS FOR USE

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1. Getting started. Connect the red terminal to the "+" side of the battery and the black terminal to the "-" side of the battery and then connect the charger to the mains supply. When the charger is plugged in, the power indicator lights up green.

2. Press the MODE button to select the appropriate charging voltage that matches the battery's rated voltage: select 6 V charging voltage for a 6 V battery and 12 V charging voltage for a 12 V battery. The selected mode will turn green.
3. The charger will automatically enter the charging mode. If the voltage at the battery terminals is more than 2 V, the power indicator will flash green. If the voltage is less than 2 V, the charging process will not start.
4. When the battery is fully charged, the charger will automatically enter trickle charge mode and the power indicator will light up green.
5. Before disconnecting the battery, unplug the charger from the mains supply and then remove the terminals from the battery.
6. If the battery is faulty, the fault indicator will go on.



1. Power indicator
2. Fault indicator
3. Mode selection button
4. 6 V indicator
5. 12 V indicator



WARNING!



Use the correct charging voltage according to the battery's rated voltage! Do not charge the battery when the engine is running!

SAFETY FUNCTIONS

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1. **Short circuit protection.** The charger will automatically power off if the terminals are short-circuited.
2. **Overtemperature protection.** The charger powers off in two situations, as described below, and automatically enters the charging mode when the operating temperature is restored:
 - a). When the charger has been exposed to high temperatures for a long time;
 - b). When the temperature inside the charger exceeds the operating temperature.
3. **Spark protection.** The terminals are not energized until the battery is connected.

SPECIFICATIONS

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RATED OUTPUT VOLTAGE	6V/DC direct current	12V/DC direct current
Maximum input power	21W	
Rated output voltage	7.2V DC \pm 0.2V	14.4V DC \pm 0.2V
Rated output current	1A	
Rated input voltage	AC 100-240V / 50HZ / 60Hz	
Operating temperature	(-10 ^o) - (+40 ^o)	
Storage temperature	(-30 ^o) - (+60 ^o)	
Dimensions, cm	12.50 x 6.90 x 7.20	
Weight, kg	0.20	

TROUBLESHOOTING

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No.	FAULT	REMEDY
1.	Charger does not respond when turned on	1). Check the mains outlet 2). Return the charger to a service center for inspection
2.	Power indicator is on, but the charging process does not start	1). Check connection of the terminals to the battery 2). Check the terminals for sulfiding 3). Check the terminal wire for damage. If it is damaged, do not try to replace it yourself. Return the charger to the service center. 4). The charger has activated overtemperature protection. Wait a while for the charger to cool down. 5). Wrong battery voltage has been selected
3.	Power indicator is off when the charger is working	Indicator is faulty
4.	6V or 12V indicator does not light up when the charger is working	Indicator is faulty
5.	6V/12V cannot be switched	Return the charger to the service center for testing Indicator is faulty

RISK OF EXPLOSION**6**

1. Do not use an acid battery near open flame as it emits explosive gas during charging. Read the instructions carefully before use.

2. To reduce the risk of battery explosion, follow the battery instructions provided by the device manufacturer and ensure a well ventilated area during charging.

NOTES**7**

1. Please read the owner's manual carefully before use.

2. Please do not dismantle the charger.

3. The charger may become hot during operation.

4. Do not use the charger in rain or wet environment.

5. Please keep the charger out of the reach of children.

6. Be sure to check the power cord before use and make sure it is not damaged. Do not use the charger with a damaged power cord or case.

7. Never charge a damaged or frozen battery. It is dangerous.

WARRANTY SERVICE TERMS**8**

The international manufacturer warranty is 1 year. The warranty period starts from the date of purchase. In cases where a warranty period is longer than 1 year according to local legislation, please contact your local dealer. The Seller of the product is responsible for granting the warranty. Please contact the Seller for warranty. If the product fails within the warranty period because of defects in workmanship, it will be exchanged for the same product or repaired.

The warranty card should be kept throughout the warranty period. In case of warranty card loss, a second one will not be provided. The Customer must provide the warranty card and proof of purchase when requesting any repair or exchange. Otherwise, the warranty service will not be provided. The warranty card attached to the product during sale should be correctly and fully completed by the retailer and customer, signed and stamped. In other cases, the warranty shall be deemed invalid.

Provide clean product to the service center. Parts that must be replaced are the property of the service center.

CONTACTS

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51143 Köln,

www.ks-power.de

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