

**Please, read this manual
carefully before use!**

Owner's Manual



Charger for 20V Lithium battery

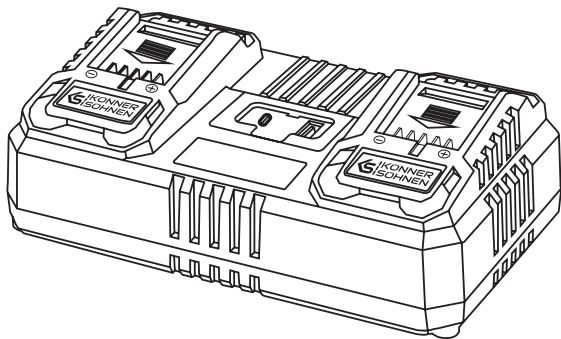
KS C24A

KS C45A

KS C35A-2

KS C45A-2

KS C90A





Thank you for choosing **Könner & Söhnen®** products. This manual provides a brief description of safety requirements, setup procedures, and operating instructions. More information is available in the support section at: **konner-sohnen.com/pages/instructions**

You can also download the manual by scanning the QR code or by visiting the official importer's website at **www.konner-sohnen.com**



Please, read this manual carefully before use!

The manufacturer reserves the right to make changes that may not be reflected in this manual, including:

- 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 at the time of 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 of the operator or third parties.



IMPORTANT!



Useful information while operating the machine.

SAFETY INSTRUCTIONS

1

- The product is only intended to be used indoors in a dry, well ventilated area.
- Never attempt to charge non-rechargeable batteries.
- Never attempt to charge batteries not intended to be used with this charger.
- If the product's power cord is damaged it must be replaced by the manufacturer or an authorised service centre to prevent the risk of electric shock.
- Do not allow children to clean or maintain the product without supervision.
- Keep small children under supervision to make sure they do not play with the product.
- Unplug the power cord from the power point before inserting or removing the battery.
- Never leave the product unattended - risk of fire and electric shock.

- Protect the product from moisture. Damp or dirty conditions can have an adverse effect on the product.
- Never immerse the product in water or any other liquid, or use it where there is a risk of it being splashed, or dropping into water.



ATTENTION - DANGER!







Explosive gas. Avoid sparks and flames. Make sure there is adequate ventilation when using the product






- Connect the product to an easily accessible power point near the battery charger.
- The product is only intended for household use, not for commercial use.
- Connect the product via a residual current device (max 30 mA) if possible. Never modify the power cord or plug.
- Never pull out the plug with the power cord, or touch the power cord with wet hands. Keep the power cord away from hot surfaces/objects, oil, sharp edges and moving objects.
- Check the product for damage.
- Be careful when handling and using the product.
- Avoid dropping the product and do not subject it to knocks and blows - risk of material damage and personal injury.
- Never use a damaged battery charger or battery.
- Do not insert objects or your fingers in the openings on the product.
- Do not expose the product to rain or moisture - risk of corrosion.
- Do not expose the product to dust and debris - risk of blockage and overheating.

SYMBOLS

2

Some of the following symbols may be used on this product. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the product better and safer.

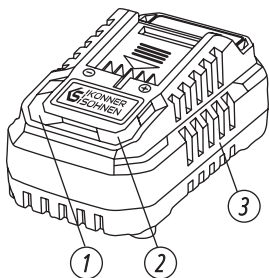
	Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
	This symbol is used throughout this manual to warn the user about potential risks. Please read & understand these sections before using the device.
	For indoor use only.
	Safety class II.

	Do not burn.
130° 	Fuse.
	Polarity marking.
	Approved in accordance with the relevant directives.
	Recycle end-of-life product in accordance with local regulations.

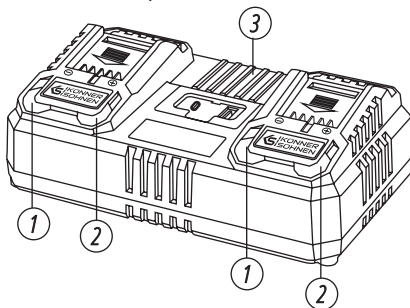
MAIN OVERVIEW

3

MODEL KS C24A



MODEL KS C35A-2, KS C45A-2



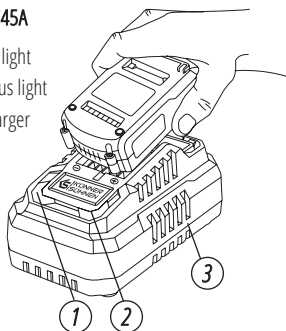
IMPORTANT!



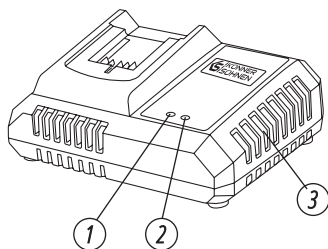
Manufacturer reserves the right to make changes and/or improvements in design, components set and technical attributes without notice and without incurring obligation. The pictures in this manual are schematical and may not match the parameters of original product.

MODEL KS C45A

1. Red status light
2. Green status light
3. Battery charger



MODEL KS C90A



SPECIFICATIONS

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Model	KS C24A	KS C45A	KS C35A-2	KS C45A-2	KS C90A
Rated voltage	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Nominal output voltage	21.5V	21.5V	21.5V	21.5V	21.5V
Nominal output current	2.4A	4.5A	2×3.5A	2×4.5A	9A
Safety class	II	II	II	II	II

USE

5

UNPACKING

Carefully remove the product and any accessories from the packaging and check that the product is not damaged. Do not use the product if it is damaged. If possible save the packaging until the warranty has expired.



WARNING!



Keep the packaging material out of the reach of children and pets - risk of suffocation.

CHARGING THE BATTERY

Carefully take out the charger and all accessories from the packaging and inspect them for damage. Do not use the device if it is damaged. If possible, keep the packaging until the warranty period expires.










NOTE



The battery is supplied uncharged and must be charged before using for the first time.

1. The battery (A) must be removed from the tool before it can be charged. Press the battery catch button (B) and carefully pull out the battery.
2. Connect the battery charger (3) to a 230V power point.
3. The red status light (1) goes on to show that the charger is supplied with voltage.
4. Put the battery in the charger.
5. After a few seconds the green status light (2) also goes on to indicate that the charging has started. The light stays on while the charging in progress.
6. When the battery is fully charged the red status lights go off but the green light stays on.
7. Remove the battery from the battery charger by holding the battery charger in one hand and removing the battery from the charger with the other.

BATTERY CHARGE LEVEL

Red LED	Green LED	Battery Charge Status
		Charger is connected to mains power
		Connected battery is charging
		Connected battery is fully charged
		Connected battery has a charging fault
		Charger is outside correct operating temperature range (<math><0^{\circ}\text{C}</math> / $>40^{\circ}\text{C}$)

If the LEDs on the charger do not illuminate when charging:

- Check that mains plug is properly connected to the power supply and the supply is switched on.
- Check that the battery is correctly inserted in the charger.

Connecting the battery to the power tool

- Connect the battery to the battery socket on the tool so that it clicks into place.

Removing the battery from the power tool

- Press the battery release button and remove the battery from the tool.



IMPORTANT!



- Check the condition of the charger and the battery before use. Do not attempt to charge if the battery or charger are damaged.
- Do not pull the power cord to pull out the plug, grip the plug to avoid damaging the cord.
- The charger gets warm when charging. Allow it to cool for 15 minutes before charging again.

TIPS FOR MAXIMUM BATTERY LIFE

- Avoid overdischarging - charge the batteries before they are fully discharged.
- When the power tool begins to fail, stop working and charge the battery. If you continue working until the battery is fully discharged this can damage the battery
- Avoid charging at high temperatures. A rechargeable battery will be hot for a while after use. If such a battery is charged immediately after use the active substances inside the battery can be corrupted and

reduce the battery life. Allow the battery to cool before charging.

- Do not charge the battery at temperatures below 5°C or above 30 °C, this can damage the battery.
- Allow the battery to reach room temperature before charging.



NOTE



Charging a cold or hot battery can cause serious personal injury or serious damage to the battery or charger.

MAINTENANCE

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NOTE



Always pull out the plug before cleaning.

Clean and maintain the product at regular intervals so that it retains its correct functionality. Clean with a dry cloth.

TROUBLESHOOTING

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WARNING!



- **If any of the following occur, pull out the plug and remove the battery or batteries from the charger.**
- **Do not pull the power cord to pull out the plug. Grip the plug to avoid damaging the cord.**

NO STATUS LIGHTS GO ON

- Pull out the plug from the power point. Remove the battery from the battery charger. Hold the battery charger in one hand and remove the battery from the charger with the other hand.
- If the battery is hot when attempting to charge, for example as a result of use or exposure to direct sunlight, no charging will take place. In which case, allow the battery to cool before charging.

THE STATUS LIGHT FLASHES

If the red status light flashes rapidly, check the battery compartment in the charger and remove any foreign objects. If there are no foreign objects in the battery compartment there is probably a fault on the battery or charger. Allow the battery and/or charger to cool and then try to charge again. Contact the retailer if the fault persists.

WARRANTY SERVICE TERMS

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Könner & Söhnen warrants the original purchaser of chargers for Lithium batteries to 1 year. If warranty is longer than 1 year according to local legislation, contact your local seller for granting warranty. Warranty starts from the date of retail purchase by the end-user.

Make sure to keep your receipt during the whole warranty period. This product is not intended for commercial use.



EC Declaration of Conformity

Nr. 264

The following products have been tested by us with the listed standards and found in compliance with the European Community Low Voltage Directive 2014/35/EC, Directive 2014/30/EU relating to electromagnetic compatibility.

Manufacturer: DIMAX INTERNATIONAL GmbH
Address: Flinger Broich 203, 40235 Duesseldorf, Germany
Product: Charger for 20V Lithium battery "Könner & Söhnen",
Fast charger for 20V Lithium battery "Könner & Söhnen"
Dual-port fast charger for 20V Lithium battery "Könner & Söhnen"
Type / Model: KS C24A, KS C24A-UK, KS C45A, KS C45A-UK, KS C35A-2,
KS C35A-2UK, KS C45A-2, KS C90A

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: 2014/35/EC Low Voltage Directive
2014/30/EU Electromagnetic compatibility Directive (EMC)

Applied Standards: EN IEC 55014-1:2021
EN IEC 55014-2:2021
EN IEC 61000-3-2:2019+A1
EN 61000-3-3:2013+A1+A2
EN 60335-1:2012+A11+A13+A1+A14+A2+A15
EN 60335-2-29:2021+A1
IEC 60335-2-29:2016
IEC 60335-1:2010
EN 62233:2008
EK1 527-12 Rev. 2



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P. Fomin

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International GmbH
Flinger Broich 203 40235 Düsseldorf
USt-ID DE296177274
koenner-soehnen.com

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.

CONTACTS

Deutschland:

Hergestellt unter Lizenz und Kontrolle der DIMAX International GmbH.

Importeur und Vertreter in Deutschland:
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Düsseldorf, Deutschland. Produziert in VRC.

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www.konner-sohnen.com

European Union:

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Importer i przedstawiciel w Polsce:
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Україна:

Виготовлено за ліцензією та під контролем DIMAX International GmbH, Flinger Broich 203, 40235 Дюссельдорф, Німеччина.

Імпортер та представник в Україні:
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www.konner-sohnen.com.ua

