

# KÖNNER SÖHNEN

## ENERGY



FOR HOME



FOR CAMPING



FOR BUSINESS



FOR CONSTRUCTION



FOR RENOVATION

TRADITIONELLE DEUTSCHE QUALITÄT



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## DEAR KÖNNER & SÖHNEN® CUSTOMERS AND PARTNERS!

Thank you for your interest in our products. We hope that Könnér & Söhnen® equipment and accessories will become your reliable assistant!

**Könnér & Söhnen®** was created in Germany with the aim of producing high-quality, reliable equipment available for purchase by a wide range of consumers. Thanks to the many years of experience of our German specialists in the production of generators and garden equipment, we have created a series of products that meet **"TRADITIONS OF GERMAN QUALITY"** concept. This is exactly the standard of quality that is passed down from generation to generation, from the master (expert) to the students, from the father to the son, from the producer to the consumers.



Könnér & Söhnen® products have stood the test of time and meet the latest European and international standards of quality, efficiency, and environmental friendliness and cater to the needs of even the most demanding European customers.

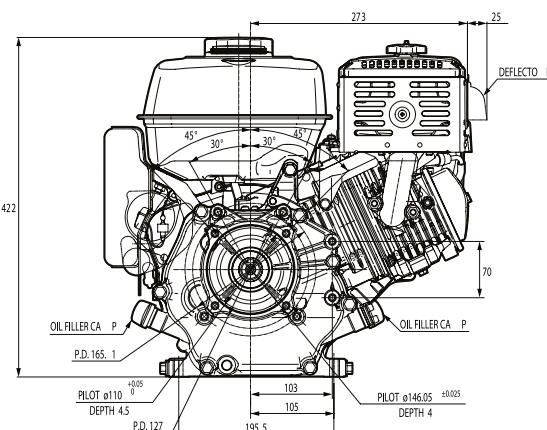
With **more than 300 items** in 2025, Könnér & Söhnen® products are already available in **more than 20 European countries** and have been recognized by international experts and awards. We have established ourselves as a leading choice pari passu with internationally acclaimed brands and are recommended by the world-famous and regional partners.

We stay strong in pursuing our goals and keep up the tradition of German quality.

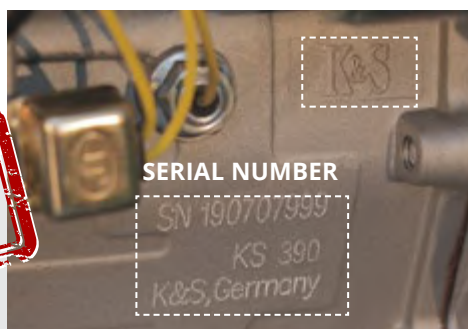
## EXCLUSIVE K&S BRANDED ENGINE

All our products are based on our in-house upgraded range of high-performance engines designed by German engineers specifically for Könnér & Söhnen®. **Könnér & Söhnen®** engines have passed multi-stage tests and investigations, with all possible defects eliminated at the production stage. We purchased a license for the manufacture of our in-house range of Könnér & Söhnen® engines under the company logo and obtained all necessary certificates of conformity to European and international quality, efficiency and environmental standards, including the latest EURO 5 emission standard.

- Guaranteed power output
- Reinforced, wear-resistant parts
- Increased lifespan
- Multi-stage tests
- Serial number
- Own brand embossing



### OWN BRAND EMBOSSING



Each engine used in our generators, tillers and garden equipment has a unique serial number, allowing us to track the production and service quality.

## KÖNNER & SÖHNEN® IN 2025

In 2025, Könnér & Söhnen® products are already available and in high demand in more than **20 European countries**. Additionally, they are already present in the United States and countries in Latin America, as well as in many countries in the Middle East (Turkey, Oman, UAE, Qatar, Israel) and African countries (Morocco, Egypt, Nigeria, Ethiopia). The company has **5 offices and 3 official representations**, its own service and production centers in Europe, and a well-developed dealer network.

Currently, our equipment is showcased in more than **500 sales** outlets and is commercially available to more than **500 million people**. Every year, we open up 3-5 new markets, set up official representative offices and significantly increase our turnover.



### Head office:

DIMAX International GmbH  
 Flinger Broich 203, -FortunaPark-  
 40235 Duesseldorf, Germany



COUNTRIES WORLDWIDE



PRODUCT ITEMS



SALES OUTLETS



SERVICE SUPPORT



The Könnér & Söhnen® brand is dynamically developing and has interest in new business partners and sales markets.  
**Best regards, Könnér & Söhnen® team.**



## PRODUCT RANGE

Having identified all customer needs, we have carefully selected a range of products with the best features, ultimate reliability, and functionality to best meet the needs of our customers.

### K&S ENERGY

- Balcony Energy Solar Systems
- Portable power stations, solar panels
- DC Generators
- AC Generators (gasoline, LPG/Gasoline, diesel, inverter)
- Diesel power plants



### K&S GARDEN

- Battery-Powered Garden Tools (with lithium-ion battery):
  - Chainsaws
  - Lawn mowers
  - Brush cutters & string trimmers
  - Hedge trimmers
  - Leaf blowers & vacuums
- Electric garden tools:
  - Chainsaws
  - Brush cutters & string trimmers
- Log splitters
- Wood chippers
- Tillers (electric and gasoline)
- Water pumps
- Multifunctional machines 4 in 1



### K&S CONSTRUCTION

- Vibratory plate compactors
- Tamping rammers
- Compressors



### K&S AUTO

- Electric vehicle charging stations
- Jump starters
- Portable air compressors
- Car vacuum cleaners
- Automotive accessories



## STATE-OF-THE-ART TECHNOLOGY

Keeping up with the changing technologies, Könnner & Söhnen® constantly updates its product range and introduces new technologies that not only add to the reliability, ecological compatibility and operational efficiency of our equipment but also meet the needs of our customers.



As we prioritize the environment, each product line has items featuring the latest eco-friendly technology. We offer the following products that help to reduce the environmental impact:

### "ECO-FRIENDLY" ENERGY SOURCES

**Balcony Energy Solar Systems from Könnner & Söhnen®** are modern autonomous power supply systems that enable you to use your ordinary balcony as a source of clean and free solar energy.

**Könnner & Söhnen® portable chargers and solar panels** are "eco-friendly" innovative energy sources that produce no harmful waste during use and do not adversely affect the environment and the climate in general.

### COMPATIBILITY "GREEN ENERGY"

**Integration with green energy** (solar/wind power plants) - direct current generators (24-54V) and generators with a built-in ATS system can be connected to a solar charge controller for automatic battery charging and electricity supply to the house.

**EURO 5** - generators are based on K&S branded engines that meet the latest EURO 5 emission standard.

**DUAL FUEL** - models run on both LPG (propane-butane) and gasoline. LPG is more ecologically clean fuel than gasoline - ensures less emissions of harmful substances of exhaust gases into the atmosphere. LPG has a lower carbon footprint than gasoline and produces fewer exhaust emissions.

### Innovative battery system for garden and construction tools "THE SINGLE BATTERY = MANY TOOLS"

**Battery-powered garden and construction tools** are eco-friendly devices that do not generate harmful waste during operation, having no impact on the environment and climate in the region. Using a SINGLE BATTERY FOR ALL TOOLS reduces waste and eliminates the need to dispose of numerous batteries, further contributing to a positive environmental impact. Also product group of Könnner & Söhnen® garden equipment includes models featuring eco-friendly electric motors.

## QUALITY CONTROL AT EACH PRODUCTION STAGE

All Könnner & Söhnen® products are manufactured under the supervision of German engineers and tested at various stages of production. The customer service callback rate is therefore less than 1%.



### CUTTING EDGE EQUIPMENT

- Quality control of purchased spare parts for compliance with European requirements, quality and safety standards;
- Quality control at the production and assembly stage.

### IN-HOUSE SERVICE AND PRODUCTION FACILITIES IN EUROPE

- Control of each finished batch of goods before shipment;
- Quality control at our European in-house service and production center for clearance to sale.

## QUALITY CERTIFICATES

Könnner & Söhnen® products have all necessary certificates of conformity to European and international quality standards, including the latest EURO 5 emission standard.





## INTERNATIONAL AWARDS

We take pride in the high quality and reliability of **Könnner & Söhnen®** equipment recognized by international experts and prestigious awards. Fastidious and demanding German technical innovation experts have thoroughly examined and tested our products and concluded that the manufacturer Könnner & Söhnen® offers its customers reliable products that are different from the mass-produced ones. They also emphasized some exclusive product innovations and ease of use.



### FORBES DIAMONDS 2025

Poland • 2025

The Forbes magazine has awarded the **Forbes Diamonds 2025** title to DIMAX International Poland Sp. z o. o. as the fastest growing company which have chosen the right business strategy. The strategy of forming the product range with an emphasis on cutting-edge technologies and the development of new exclusive technologies, as well as the intelligent corporate structure and interaction both within the company and beyond enabled it to achieve this success.



### EXCELLENT BRANDS

Germany • 2022

In 2022 Könnner & Söhnen® was announced the winner of the **German Brand Award'22** competition in two nominations:

- Excellent Brands - Industry, Machines & Engineering
- Excellent Brands - Product Brand of the Year

Among the 1,200 submissions from exclusively German brands, the unbiased experts honored Könnner & Söhnen® products in two Excellent Brands categories: "Industry, Machines & Engineering" and "Product Brand of the Year." The evaluation criteria are transparent and openly communicated.



### PLUS X AWARD

Germany • 2019

In 2019, Könnner & Söhnen® products won the prestigious German **Plus X Award** in three nominations:

- High Quality
- Ease of Use
- Functionality

**Plus X Award** is one of the most renowned awards in the world that ascertains the quality and reliability of products. German experts confirmed that products from Könnner & Söhnen® meet the requirements for high-quality products and stated that the equipment is tailored to even the most demanding customer needs.



### GOLD MEDAL

Poland • 2018

In 2018, Könnner & Söhnen® products received the prestigious **Gold Medal Award in the Expert Choice nomination in Poland**.

Könnner & Söhnen® equipment was recognized by experienced European experts and professionals as equipment that meets the requirements of advanced technologies. This award attests to quality of products and high production potential of Könnner & Söhnen®.



### PRODUCT OF THE YEAR

Ukraine • 2016

Könnner & Söhnen® products won the 2016 **UKRAINIAN NATIONAL OLYMPUS** award as the **BEST PRODUCT OF THE YEAR** in the **Garden Equipment & Generators** category based on value for money. The Könnner & Söhnen® brand has occupied its niche in the medium price category, offering buyers high-quality goods with all European certificates at an affordable price.

## BUSINESS CHEETAH

Poland • 2022

Dimax International Poland Sp. z o.o. (Poland) was distinguished by the European Business Institute in the 17th edition of the Business **Cheetahs 2022 competition**, the 15th edition of the Diamonds of the **Polish Economy 2022** competition, the 15th edition of the **Efficient Company 2022** competition, and the 10th edition of the **Strong Company 2022** competition based on financial data from the National Court Register.



**Diamond of the  
Polish Economy  
statuette**



**Business Cheetah  
statuette**



**Efficient Company 2022  
statuette**



**Strong and Trustworthy  
Company statuette**

The company is growing dynamically, achieving an average income and net profit growth rate of 454.8% in the years 2019-2020, earning it the title of "**Business Cheetah 2022**." Additionally, the company's effective operations were confirmed by an average net profit to income ratio of 10.7% in the years 2019 and 2020, earning it the title of "**Efficient Company 2022**." As a result, the company also earned the title of "**Strong and Trustworthy Company 2022**." The market value of the company was estimated at PLN 61 million in March 2021, earning it the title of "**Diamond of the Polish Economy 2022**." The company sells high-quality devices of the German brand Könnner & Söhnen® at affordable prices.

## **BENEFITS FOR DEALERS**

Thanks to a team of professionals with many years of experience in developing and selling equipment, we know exactly the needs of each sales channel and provide our partners with a complete package of necessary materials. We create all the necessary conditions for your successful sales. That is why Dimax Group provides comprehensive after-sales support to customers throughout the sales territory.

### **TIME-PROVEN QUALITY PRODUCTS TESTED BY DEMANDING EUROPEAN CUSTOMERS**

Our products have received numerous awards and wide recognition for both their quality and affordability.

### **INTERNATIONAL CUSTOMER & PARTNER SUPPORT**

- full after-sales service
- professional advice on any technical issues
- manuals, photos and videos with detailed instructions for use of the equipment
- staff product range training

### **WARRANTY AND AFTER-SALES SERVICE**

- customer service with original spare parts
- 2-year limited warranty

### **PRE-SALES ASSESSMENT**

For each finished batch of goods, a part of the goods undergoes testing at our in-house service and production center in Europe to verify compliance with the specifications approved by Könnér & Söhnen® engineers and to issue a certificate of approval for sale.

### **MARKETING AND DESIGN DEPARTMENT**

We provide a complete set of marketing and information materials: photos, videos, 3D reviews, promotional POS and WEB materials (catalogs, booklets, promotional mailings, banners, assistance in branding exhibition halls, website development and technical support services.)



**HIGH  
QUALITY**



**WIDE SEGMENT  
OF BUYERS**



**STAFF  
TRAINING**



**AFTER-SALES  
SUPPORT**



**COMFORTABLE TERMS  
OF COOPERATION**



**PRE-SALE  
PREPARATION**



**FULL MARKETING  
SUPPORT**



**TOP-NOTCH  
CUSTOMER SERVICE**

**CHOOSING KÖNNER & SÖHNEN®, YOU BECOME PART OF A LARGE-SCALE COMPANY AND GET A TURNKEY BUSINESS**

## **100% SERVICE SUPPORT**

We provide 100% customer support and after-sale service throughout the sales area.

### **INTERNATIONAL CUSTOMER & PARTNER SUPPORT**

- professional advice on any technical issues
- full after-sales service
- staff product range training

### **VIDEO INSTRUCTIONS ON HOW TO USE OUR PRODUCTS**

- commissioning
- start-up
- explanation of individual functions
- other useful tips

### **WARRANTY AND AFTER-SALES SERVICE**

- high-quality service with original spare parts
- international warranty



**WE ARE INTERESTED IN YOUR SUCCESS! WELCOME TO COOPERATION!**



## GROWING BRAND RECOGNITION

Our fast-growing company has potent promotion and strong sales positions in every market it enters. Every year, we participate in leading trade shows worldwide.



**GERMANY  
COLOGNE**

2016 • 2018  
2022 • 2024



**GERMANY  
COLOGNE**

2024



**FRANCE  
PARIS**

2024



**POLAND  
POZNAN**

2016 • 2017  
2018 • 2019



**POLAND  
POZNAN**

2018 • 2019



**UAE  
DUBAI**

2018 • 2022



**POLAND  
WARSAW**

2018



**UKRAINE  
KYIV**

2017 • 2018  
2019



**EGYPT  
CAIRO**

2022



**TANZANIA  
DAR ES SALAAM**

2022



**KENYA  
NAIROBI**

2022



**EGYPT  
CAIRO**

2023

## WE ARE TRUSTED BY

Customer trust is a cornerstone of the further effective development of any business. We value every customer and are proud to be recommended by globally known trading partners.



## CUSTOMER DIVERSITY

We have created a range of products with the best features for the most demanding customers. Könnér & Söhnen® products are suitable for both domestic and commercial applications.

They have the best value for money!





# Könner & Söhnen – ENERGY

Products from the **Könner & Söhnen - ENERGY** category, are not just backup energy sources - they are innovative solutions that make the world better.

One of the most urgent issues today is the possibility of unexpected interruptions in central power supply. In the modern world, being without electricity means not only being without lighting, water, and heating but also without information and communication with loved ones. Könner & Söhnen - ENERGY products from Könner & Söhnen® are the perfect solution for unexpected circumstances.

The wide range of products in the Könner & Söhnen - ENERGY category includes over 100 units of the latest generation for solving power supply issues in both private and professional settings: for homes, apartments, business facilities, workshops, camping, events, and much more.

Our engineers are constantly working on implementing the latest technologies in Könner & Söhnen® products to ensure their maximum efficiency while preserving natural resources. We value the environment and strive to minimize the impact of our products on the surroundings.

Therefore, in 2024, we are expanding the product line of eco-friendly energy sources, which will not only help preserve our planet but also save money.

✓ **Cutting-edge autonomous power supply systems - balcony solar systems.**

✓ **Modern energy storage systems - portable chargers.**

The use of renewable energy sources contributes to environmental conservation.

✓ **Direct current generators are the best solution for alternative power systems with 24/48 V batteries. These are not just generators but truly charging generators with automatic output current regulation. They are ideal for charging batteries in the field of ensuring energy independence for private households, autonomous, solar, wind, telecommunication systems, uninterruptible power supply systems, and other systems using high-capacity batteries.**

✓ **Lithium iron phosphate (LiFePO<sub>4</sub>) batteries are the ideal solution for solar power stations, other backup power systems, and uninterruptible power supply (UPS) systems.**

Furthermore, within the Könner & Söhnen - ENERGY product range, we offer consumers an exceptionally wide variety of alternating current generators with unique functionalities, some of which have no equivalents among other manufacturers:

✓ **Gasoline, LPG/gasoline, diesel generators - reliable generators with a variety of capacities ranging from 2.5 kW to 15.6 kVA.**

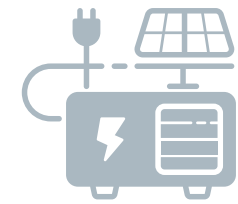
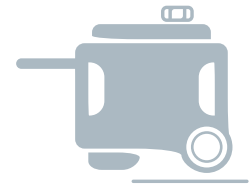
✓ **Inverter generators with exclusive features, unparalleled capabilities, and providing a wide range of functional solutions for backup power.**

✓ **This year, we have expanded our range of gasoline and LPG/gasoline inverter generators, which produce maximum pure current with models that run on diesel fuel - these rare devices have an extended engine lifespan and, at the same time, feature fuel-saving functionality.**

✓ **Diesel power stations from the HEAVY DUTY series, based on low-speed 4-cylinder engines with water cooling, ranging in power from 16 to 1000 kVA.**

All products in the Könner & Söhnen - ENERGY category are modern, highly efficient devices that meet the highest international quality standards. These top-quality products have already proven themselves in more than 20 European countries, characterized by long-lasting and reliable operation.









# DC GENERATORS



24/48 ( $\leq 70$  A)



Direct current generators from Könner & Söhnen® are the best solution for modern alternative power systems. These are not just generators but truly charging generators with automatic output current regulation!

The generator is to be used as a backup power source for systems with 24/48 V batteries. Such batteries are typically used in solar power systems, wind power systems, UPS systems, mobile communication base stations, surveillance systems, and in other spheres of automotive and construction equipment.

SOLAR OR WIND POWER PLANTS



**THIS GENERATOR CAN BE INTEGRATED WITH VARIOUS SYSTEMS.  
IT CONNECTS DIRECTLY TO THE BATTERY,  
WHICH SIGNIFICANTLY SIMPLIFIES INSTALLATION.**

DC GENERATOR



24/48 V BATTERY



PORTABLE SOLAR  
POWER STATION



CONSUMERES



POWER SUPPLY



**SIMPLE INSTALLATION**

- ✓ The generator connects directly to the battery, which significantly simplifies installation.
- ✓ The possibility of external control of «dry contacts» significantly expands the possibilities of integrating the generator into existing power supply systems.



## DIRECT CURRENT GENERATORS FROM KÖNNER & SÖHNEN® - THE MOST EFFICIENT BATTERY CHARGING SYSTEM:

### ✓ MAXIMUM EFFICIENCY

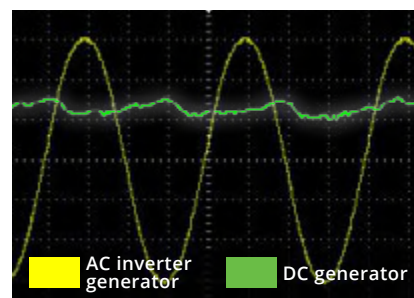
This method of charging is more efficient since there are no intermediate current conversions and associated with this energy losses, thanks to this, **the efficiency coefficient is twice as high**. This generator charges the battery with direct current, while an AC generator charges with pulses.

### ✓ FAST CHARGING

Charging is twice as fast as in a system with a conventional generator. The charging power of this generator equals the charging power of a regular AC generator with a double capacity (7-8 kW), as well as the charging power of ten solar panels in the summer!

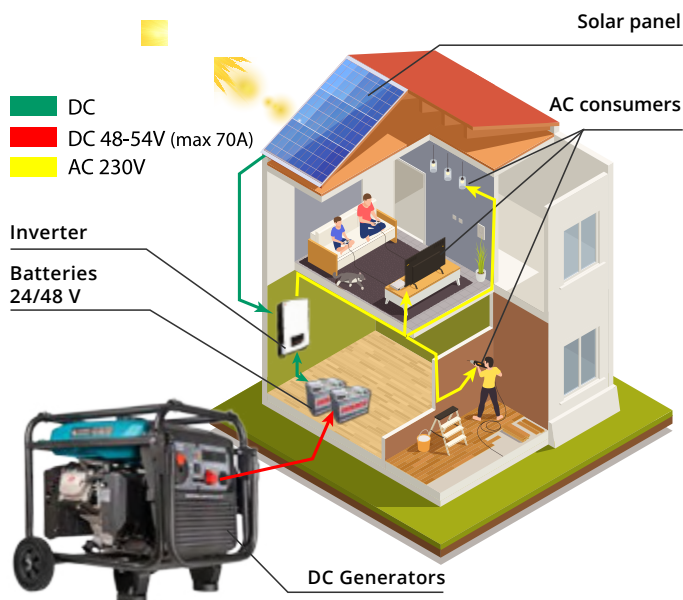
### ✓ COST-EFFICIENT CHOICE

Over 50% fuel savings - this generator needs to operate half the time compared to a conventional one. Additionally, it adjusts the engine speed based on the battery charge, enhancing fuel savings and extending the generator's lifespan.



MAXIMUM CURRENT EFFICIENCY

DC GENERATOR



### ✓ AUTOMATIC START

With the integrated controller, the generator constantly monitors the battery voltage in AUTO mode and automatically starts charging the battery when its voltage drops.

### ✓ SAFE USE

The absence of life-threatening high voltage protects the user from electric shock while using the generator.

### ✓ COMPACT SIZES AND HIGH POWER

High charging power in a small size generator - the generator is designed by analogy with the inverter type of generators. It takes up 3-5 times less space than a set consisting of regular 230V generator with alternating current and a powerful charger that converts 230V alternating voltage into a direct voltage for battery charging. Equipped with a transport kit for easy movement.





## KS 24VS-DC

|                        |                      |
|------------------------|----------------------|
| Current (max)          | 50 A                 |
| Voltage                | 24 – 27 V            |
| Engine start           | manual/auto/external |
| Fuel type              | gasoline             |
| Net dimensions (LxWxH) | 500×285×460 mm       |
| Net weight             | 19 kg                |



## KS 24VGS-DC

|                        |                      |
|------------------------|----------------------|
| Current (max)          | 50 A                 |
| Voltage                | 24 – 27 V            |
| Engine start           | manual/auto/external |
| Fuel type              | gasoline/LPG         |
| Net dimensions (LxWxH) | 500×285×460 mm       |
| Net weight             | 19 kg                |



## KS 48V-DC

|                        |                      |
|------------------------|----------------------|
| Current (max)          | 70 A                 |
| Voltage                | 48 – 54 V            |
| Engine start           | manual/auto/external |
| Fuel type              | gasoline             |
| Net dimensions (LxWxH) | 510×525×310 mm       |
| Net weight             | 36,5 kg              |



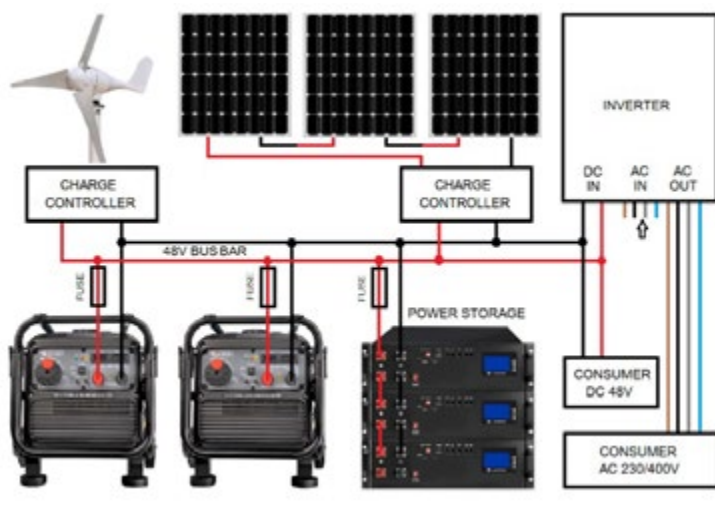
## KS 48VS-DC

|                        |                      |
|------------------------|----------------------|
| Current (max)          | 70 A                 |
| Voltage                | 48 – 54 V            |
| Engine start           | manual/auto/external |
| Fuel type              | gasoline             |
| Net dimensions (LxWxH) | 620×440×510 mm       |
| Net weight             | 40 kg                |





You can connect multiple generators in parallel to increase overall power or provide longer battery power supply.



## SAMPLES OF APPLICATION

### SOLAR OR WIND POWER STATIONS



INVERTER FOR SOLAR AND WIND POWER PLANTS

### MOBILE BASE STATION



ELECTRONIC MODULES WITH 24/48 V BATTERIES

### VIDEO SURVEILLANCE ROOM



UNINTERRUPTIBLE POWER SUPPLY (UPS)

✓ The generator is connected in parallel to the battery, it can itself monitor the battery voltage in auto mode. Generator starts and stops automatically if necessary.

✓ In external mode, the generator is controlled externally by external "dry contacts" (e.g. inverters with programmable "dry contacts"), which significantly expands the generator's range of applications.

🛡️ The generator is equipped with a system to monitor all key operating parameters, including protection against overloads, short circuits, and low oil level. The appropriate indicators are located on the generator panel.

Multifunctional engine switch

● Operating indicator  
● Overload indicator  
● Low oil level indicator

Amperemeter

Voltmeter



The terminal for connecting the positive wire of the battery

The terminal for connecting the negative wire of the battery

Switch mode of the generator

Terminals for connecting the control device





# BALCONY ENERGY SOLAR SYSTEMS

 ≤ 6000 TIMES

The balcony solar system from Könnert & Söhnen® is an improved solution in the series of balcony power supply systems, enabling significant cost savings on electricity through the efficient use of 100% solar energy.

The system operates with the central power supply available in the grid, converting free sunlight into electricity for your home or commercial needs. **This intelligent system enables you to adjust energy storage or consumption based on time and individual preferences.** Transform an ordinary balcony into a source of clean and free solar energy.

SMART BATTERY PACKS FROM  
KÖNNERT & SÖHNEN®: MAXIMUM EFFICIENCY IN  
SOLAR ENERGY USE, COST SAVINGS,  
AND TROUBLE-FREE OPERATION FOR 10+ YEARS



## INTELLIGENT ENERGY STORAGE SYSTEM

**Balcony solar systems by Könnér & Söhnen®** are built on the basis of a „Smart“ battery block with high-capacity LiFePO<sub>4</sub> lithium-iron-phosphate batteries, highly efficient solar panels, and an 800 W micro-inverter. The use of storage battery blocks enables the utilization of free solar electricity in the evening or on days when solar energy is insufficient.

### Battery capacity



**2240 Wh**

### Cycle times



**≤ 6000 TIMES**

### To the balcony solar system



**2xMC4 in,  
2xMC4 out.**

### APP Control



**THROUGH THE APP**

✓ 100% solar energy consumption

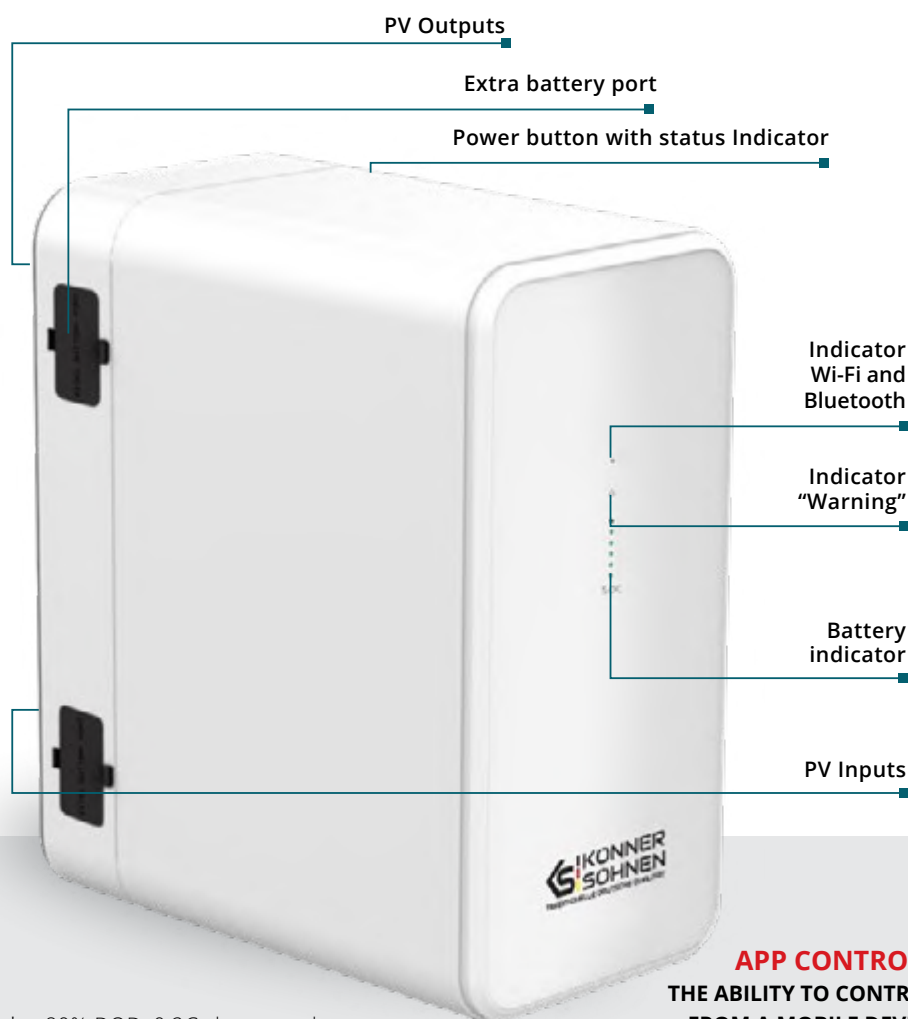
✓ Up to 800 W per hour for free

✓ Cost savings

✓ 0% resource loss

✓ 10+ years of daily use

✓ Simple installation



### APP CONTROL

The system can be remotely controlled via the Power Zero mobile application - anytime and anywhere using the internet, you can monitor and adjust energy storage and production in real-time.

Energy management enables you to configure various system usage options and regulate energy output based on your needs. Connection to devices based on Android and iOS is possible via Bluetooth or Wi-Fi.



**APP CONTROL -  
THE ABILITY TO CONTROL  
FROM A MOBILE DEVICE**



\*at 80% DOD, 0.2C charge and discharge rate, 25°C ±2°C\*





**A highly efficient system with scalability.**  
The Könnert & Söhnen® microinverter has the capability to connect two separate battery packs for storing more free solar energy.

## 2 INDEPENDENT INPUTS

The battery blocks have 2 independent inputs for connecting solar panels with MPPT controllers per each! They enable the maximum efficiency in capturing energy from each panel separately!

## 2 INDEPENDENT OUTPUTS

The blocks also have 2 independent outputs with a power of up to 400 Watts each, ensuring proper operation with a microinverter and enabling various power supply options.

## SAFETY SYSTEMS



**Overload protection**



**Short circuit protection**



**Overcurrent protection**



**Overdischarge protection**



**Overvoltage protection**



**Overheat protection**

## KS 2240BSB

|                        |                               |
|------------------------|-------------------------------|
| Capacity               | 2240 Wh (50 Ah/44,8 V)        |
| Battery Type           | LifePO4 Batteries             |
| Cycle times            | ≤ 6000 times (80% DOD)        |
| PV MC4-Input×2         | 12-59 V/8,47 A 2x500 W max.   |
| DC MC4 Output×2        | 42-50,4 V/9,52 A 2x400 W max. |
| Wireless               | BT5,2 + WIFI 2,4G             |
| Working temperature    | -10 °C + 50 °C                |
| Net Dimensions (LxWxH) | 350×175×295 mm                |
| Net Weight             | 18,7 kg                       |
| Protection class       | IP65                          |





## MICROINVERTER (single-phase inverter)

### KS MI800W

|                                       |               |
|---------------------------------------|---------------|
| Maximum input Voltage (DC)            | 60 V          |
| Range of input operating voltage (DC) | 25~55 V       |
| Maximum input current                 | 2x13 A        |
| Operating voltage range (AC)          | 230 V         |
| Rated output current (AC)             | 3,5 A         |
| Max output apparent power             | 800 VA        |
| Rated output power                    | 800 W         |
| Rated AC Grid Frequency               | 50/60 Hz      |
| Ambient Temperature                   | -20°C +65°C   |
| Peak efficiency                       | 96,5%         |
| Protective class                      | Class I       |
| Ingress protection                    | IP67          |
| Gross dimensions (LxWxH)              | 440×286×68 mm |
| Net / Gross weight                    | 3/4,4 kg      |



- ✓ Maximum Power Point Tracking (MPPT)
- ✓ High efficiency of up to 96.5%
- ✓ Integrated monitoring via Wi-Fi
- ✓ Improved heat dissipation
- ✓ Easy installation, straightforward control

## SOLAR PANELS (set of 2 solar panels 430 W)

### KS SP430-HC

|                                |                 |
|--------------------------------|-----------------|
| Maximum Power (Pmax)           | 2*430 W         |
| Conversion factor (efficiency) | 22 %            |
| Voltage at Pmax (Vmp)          | 31,88 V         |
| Current at Pmax (Imp)          | 13,49 A         |
| Open-Circuit Voltage (Voc)     | 38,49 V         |
| Short-Circuit Current (Isc)    | 14,23 A         |
| Maximum System Voltage         | 1500 V          |
| Maximum Series Fuse Rating     | 25 A            |
| Fire Rating                    | Class C         |
| PV Module Classification       | Class A         |
| Pmax/Voc/Isc Toleranc          | ±3%             |
| Gross dimensions (LxWxH)       | 1722×1134×60 mm |
| Net / Gross weight             | 44,5/46,5 kg    |



- ✓ **Half-cell type** – double the number of cells
- ✓ **TOPCon** technology
- ✓ Monocrystalline silicon module

\*Tested at STC1000W/m²; AM1.5; Cell temperature 25°C

## SOLAR PANEL MOUNTS

### (set of 2 solar panel brackets) KS BSP2

Our solar panel mounts will help you utilize balcony space most efficiently. You have the option to choose the most optimal mounting configuration based on your individual housing conditions:

1. Vertical or horizontal orientation of the panels
2. Placement directly on the balcony - this option enables installing the panels at the desired angle towards the sun, maximizing their efficiency.
3. Exterior balcony placement - in this case, the panels become almost invisible, leaving the balcony entirely at the user's disposal.





# PORTABLE POWER STATIONS AND SOLAR PANELS



300 – 2400 W



Portable charging stations from **Könner & Söhnen®** are not only a source of instant energy but also an ideal solution for those who value peace and environmental safety. You can use them indoors, in close proximity to people and animals, and it is absolutely safe because they produce no noise and, more importantly, do not emit harmful carbon monoxide (CO).

**Könner & Söhnen® portable chargers and solar panels** are “eco-friendly” energy sources that produce no harmful waste during use and do not adversely affect the environment and climate change in the region. It works quietly and efficiently powers up your electrical devices as you enjoy your time without any disturbing noise.

## POWER UP YOUR LIFE WITH KÖNNER & SÖHNEN®!



Powerful models of portable chargers (KS 1200PS and KS 2400PS) come with a LiFePO4 battery fast-charging device that charges the station quickly and safely. In just 2 hours, the battery reserve will be replenished, and the station will be ready for operation.



Portable power stations Könner & Söhnen® are equipped with Power Delivery technology, which ensures fast charging batteries of modern smartphones and even laptops.



We value the environment and strive to minimize the impact of our products on the external environment. Therefore, we implement cutting-edge technologies that enable us to reduce the harmful impact on the environment.

With these devices, you can easily charge your electrical or digital devices while traveling or when there is no mains supply. The units have USB ports and DC and AC outputs. With no mains supply, you can charge laptops, cell phones, tablets, drones, use household appliances, lighting equipment, etc.

Portable power stations from Könnér & Söhnen® are now produced using **high-quality LifePO4 lithium iron phosphate batteries** with a high capacity. These batteries have a higher energy density, compared to Li-ion, so they can store more energy in a compact format. In addition, they have a longer lifespan because these batteries have a double number of recharge cycles compared to lithium-ion batteries.

**Rated power**



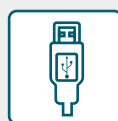
**300 – 2400 W**

**Battery capacity**



**294 – 2240 Wh**

**Outputs for connecting**



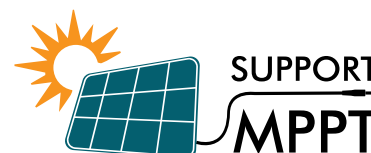
**6 – 11 DEVICES**

**Pure sine wave**



**SUITABLE FOR  
SENSITIVE DEVICES**

- ✓ Long lifespan
- ✓ A double number of recharge cycles
- ✓ High capacity



**Maximum Power Point Tracking (MPPT)**  
- is an intelligent management system that continuously monitors and finds the maximum power point in your solar system. This means that even with changes in lighting and temperature, you will get the maximum energy from each solar cell.

AC Input

DC 12V car  
Port Output

Overload protection

XT60 inputs

LED display switch

LED display

4xAC Outputs

2xType-C PD(100W) Outputs

2xUSB-A QC 3.0 Outputs

DC 12V Outputs

**APP CONTROL -  
THE ABILITY TO CONTROL  
FROM A MOBILE DEVICE**





# PORTABLE POWER STATIONS

## POWER UP YOUR LIFE WITH KÖNNER & SÖHNEN®!

A silent portable power station is an indispensable assistant, which helps to power your home in emergencies and make your outdoor activities more comfortable. When hiking, fishing, hunting, or camping, the portable power station will allow you to power your electrical devices and simply enjoy your time without disturbing noise, without harm to the environment and constant expenses for fuel and maintenance!



- ✓ Home/outdoors backup power
- ✓ Solar panel charging support
- ✓ High capacity LifePO4 battery
- ✓ LCD light panel
- ✓ Smart & safe
- ✓ Energy storage function

| KS 300PS                                   |                        |
|--|------------------------|
| Rated\Peak power                           | 300 W/500 W (20 mc)    |
| Cell capacity                              | 23 Ah/294 Wh, 3,2 V    |
| 0 to 100% charging with adapter via DC7909 | 100 W Adapter 20 V/5 A |
| Charging with MPPT PV module               | DC 7909 120 W max      |
| AC socket                                  | 230 V/50 Hz            |
| USB-A port QC 3.0                          | 2×18 W                 |
| Type-C port                                | PD 100 W               |
| Car cigarette lighter                      | 12 V/10 A              |
| Net dimensions (LxWxH)                     | 340×105×185 mm         |
| Net Weight                                 | 4,3 kg                 |



PURE SINE WAVE



| KS 500PS                                   |                        |
|--|------------------------|
| Rated\Peak power                           | 500 W/1000 W (20 mc)   |
| Cell capacity                              | 35 Ah/448 Wh, 3,2 V    |
| 0 to 100% charging with adapter via DC7909 | 100 W Adapter 20 V/5 A |
| Charging with MPPT PV module               | DC 7909 120W max       |
| AC socket                                  | 230 V/50 Hz            |
| USB-A port QC 3.0                          | 2×18 W                 |
| Type-C port                                | PD 100 W               |
| Car cigarette lighter                      | 12 V/10 A              |
| Net dimensions (LxWxH)                     | 340×105×185 mm         |
| Net Weight                                 | 4.9 kg                 |



PURE SINE WAVE



## KS 1200PS

|  |                       |
|--|-----------------------|
| Rated\Peak power                           | 1200 W/2400 W (20 mc) |
| Cell capacity                              | 23 Ah/1030 Wh, 3,2 V  |
| 0 to 100% charging with adapter via DC7909 | 1000 Wh (~ 2 hours)   |
| Charging with MPPT PV module               | XT60 max 800 W        |
| XT60 charging                              | 12-59 V max 800 W     |
| AC socket                                  | 2×230 V / 50 Hz       |
| USB-A port QC 3.0                          | 2×18 W                |
| Type-C1 port/Type-C2 port                  | PD 100 W/PD 45 W      |
| Car cigarette lighter                      | 12 V/10 A             |
| Net dimensions (LxWxH)                     | 340×220×254 mm        |
| Net Weight                                 | 12,4 kg               |

QC 3.0 USB PD POWER DELIVERY 100W

FAST CHARGING 2 HOURS

PURE SINE WAVE



## KS 2400PS

|  |                       |
|--|-----------------------|
| Rated\Peak power                           | 2400 W/4800 W (20 mc) |
| Cell capacity                              | 50 Ah/2240 Wh, 3,2 V  |
| 0 to 100% charging with adapter via DC7909 | 2000 Wh (~ 2 hours)   |
| Charging with MPPT PV module               | XT60 max 2×500 W      |
| XT60 charging                              | 2×12-59 V max 500 W   |
| AC socket                                  | 4×230 V/50 Hz         |
| USB-A port QC 3.0                          | 2×18 W                |
| Type-C1 port/Type-C2 port                  | PD 100 W/PD 45 W      |
| Car cigarette lighter                      | 12 V/10 A             |
| Net dimensions (LxWxH)                     | 409×299×307 mm        |
| Net Weight                                 | 25,9 kg               |

QC 3.0 USB PD POWER DELIVERY 100W

FAST CHARGING 2 HOURS

PURE SINE WAVE



PORTABLE POWER STATIONS

## EXTRA BATTERY FOR POWER STATION

### KS EXB-2400

|                        |                       |
|------------------------|-----------------------|
| Rated power            | 2400 W                |
| Cell capacity          | 50 Ah/2240 Wh, 44,8 V |
| Net dimensions (LxWxH) | 409x299x192 mm        |
| Net Weight             | 19,7 kg               |



LiFePO4 batteries are safer than Li-ion batteries, being less prone to overheating and combustion. Additionally, LiFePO4 batteries demonstrate greater resilience to extreme temperatures and can operate within a wider temperature range compared to some Li-ion equivalents. Utilizing renewable energy sources contributes to environmental conservation.





# PORTABLE SOLAR PANELS



120 – 210 W

Könner & Söhnen® **portable solar panels** are lightweight and compact devices that use renewable energy from sunlight. With them at hand, you can conveniently travel around and charge your devices for free multiple times.

The high-quality monocrystalline solar cells provide high efficiency of conversion of solar energy into electric energy (up to 23%) and long service life.

The environmentally friendly, practical and handy solar panel is suitable for outdoor activities, emergencies and working outdoors. It provides uninterrupted power even on cloudy days.

It does not harm the environment during operation.

### ✓ HIGH-QUALITY MONOCRYSTALLINE ELEMENTS

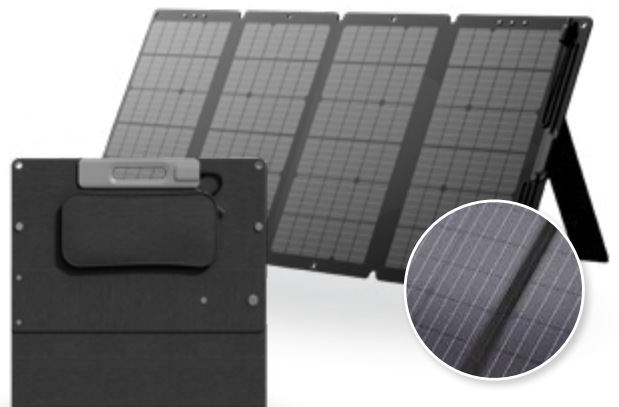
Modern monocrystalline silicon has the energy conversion efficiency of about 20%. Energy generation is possible even in a cloudy day and with partial layout.

### ✓ USER-FRIENDLY

Foldable design with portable size, easy to carry with just a single hand. The ability to operate in a partially unfolded state enables the portable solar panel to be used in confined spaces or on the move. Panels feature additional stands for vertical deployment to maximize sun rays interception.

### ✓ FOLDABLE DESIGN, COMPACT DIMENSIONS

Foldable design with compact dimensions, convenient for one-handed transport.



## KS SP120W-4

|                       |                    |
|-----------------------|--------------------|
| Rated Solar Power     | 120 W              |
| Interface             | MC4/DC7909         |
| Voltage               | 20,8 V             |
| Supply Current        | 5,76 A             |
| Working temperature   | -10 °C ~ 65 °C     |
| Conversion efficiency | ≤ 21-22%           |
| Cable length          | 200 cm             |
| Suitable for models   | KS 300PS, KS 500PS |
| Folded size (LxWxH)   | 616×381×25 mm      |
| Unfold size (LxWxH)   | 1370×616×4 mm      |
| Weight                | 6 kg               |

### ALSO INCLUDED IN THE SET:

- 1×120 W solar panel
- 1×MC4 to DC7909



## KS SP210W-4

|                         |   |
|-------------------------|---|
| Rated Solar Power       | 210 W                                       |
| Interface               | MC4/DC7909                                  |
| Voltage                 | 19,44 V                                     |
| Supply Current          | 10,8 A                                      |
| Working temperature     | -10 °C ~ 65 °C                              |
| Conversion efficiency   | ≤ 21-22%                                    |
| Cable length            | 200 cm                                      |
| Suitable for models     | KS 300PS, KS 500PS,<br>KS 1200PS, KS 2400PS |
| Folded size (LxWxH), mm | 681×555×65 mm                               |
| Unfold size (LxWxH), mm | 2070×681×3 mm                               |
| Weight                  | 8,12 kg                                     |

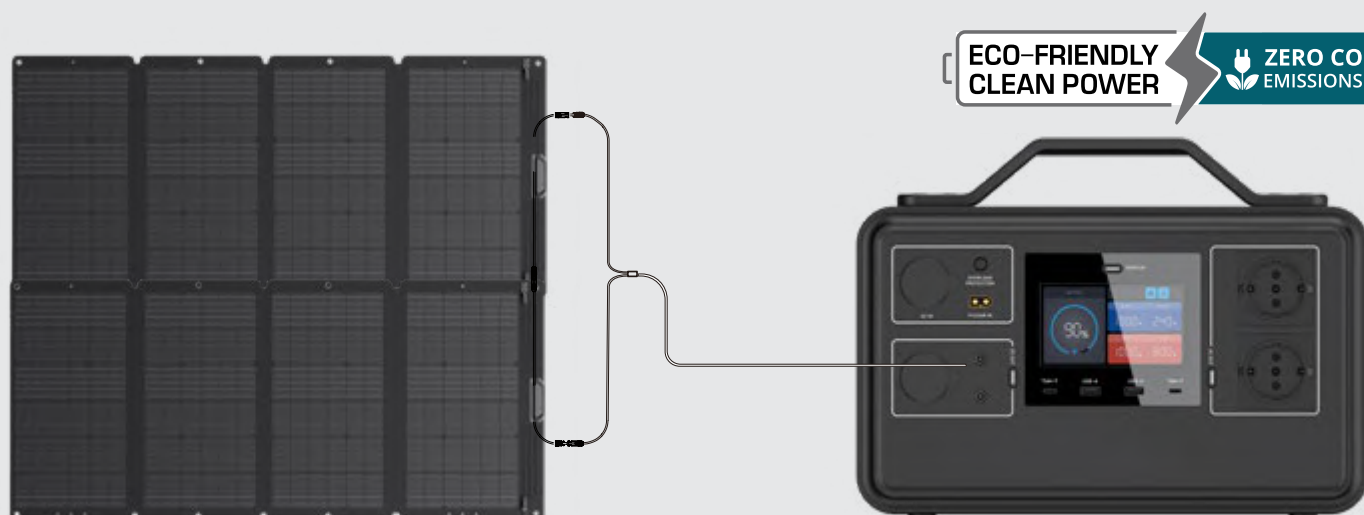
### ALSO INCLUDED IN THE SET:

- 1×210 W solar panel
- 1×MC4 to XT60



PORTABLE SOLAR PANELS

Using solar panels along with portable power stations, you can convert free solar energy into direct current, store it during the day in portable power stations, and use it at night.








## POWERFUL PORTABLE POWER STATIONS

# 4-IN-1 PORTABLE AUTONOMOUS POWER STATIONS

 **2500 – 5200 W**



The new portable power stations are not just energy storage devices—they are multifunctional 4-in-1 units. They combine a powerful MPPT controller, an inverter for energy conversion, a high-capacity battery for energy storage, and an intelligent controller for efficient management of energy storage and consumption.

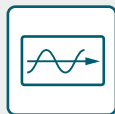
The latest reliable LiFePO4 batteries by Könnor & Söhnen® provide an impressive 6000 charge-discharge cycles, equivalent to over 15 years of daily use. The portable power stations enable lightning-fast energy storage in three different ways: in just 1 hour from solar panels, from the AC grid, or from a generator! Their large capacity and fast charging make them an ideal option for the office, home, or travel.

Cycle  
times



≤ 6000  
TIMES

Pure sine  
wave



SUITABLE FOR  
SENSITIVE DEVICES

Uninterruptible  
Power Supply



AUTOMATIC POWER  
SUPPLY

Comprehensive  
protection system



THE SAFEST LIFEPO4  
BATTERY

### ✓ **UPS function - uninterruptible power supply**

An uninterruptible power supply (UPS) automatically provides voltage to devices in case of a power failure. Within milliseconds, the station transfers power to the devices. These stations have significantly greater energy reserves than standard UPS units.

### ✓ **Comprehensive protection system - SMART BMS**

Power stations are equipped with a multi-level protection system – SMART BMS (Battery Management System). This system uses a specialized computer and sensors to regulate battery operation. It tracks the amount of energy charged into the battery and the amount used. The sensors monitor temperature, charging speed, battery capacity, and more.



Maximum  
protection level

4×USB Type-A (5V)  
1×USB Type-C (5V)

2×DC Output (12V)

**ECO-FRIENDLY  
CLEAN POWER**

**ZERO CO  
EMISSIONS**

Eco-friendly energy sources that do not produce harmful waste during use, and have no impact on the environment or climate in the region.



Multifunctional LED display

Durable metal housing

4×AC Output (230V)

Silent operation

Transport Wheels  
with Locking Mechanism

## K&S TANDEM SYSTEM MAXIMUM EFFICIENCY WITH A GENERATOR

Könnér & Söhnen® portable power stations can recharge from an inverter generator, significantly expanding their range of applications and enabling the creation of a fully autonomous, automatic power system with significant cost savings and long-lasting reliable performance



### ✓ FULL AUTOMATION

The stations are equipped with programmable „dry” contacts to control external devices (generator, external power switch) based on the station battery voltage. When the battery charge is low, the generator automatically starts, running for only the minimal time required to recharge the station. Once the charge is replenished, the generator shuts off automatically, and you use the station charge as needed.

### ✓ NO ENERGY LOSS

When operating the two devices—“Portable Power Station + Generator”—in tandem, there is no pulse power consumption by devices. The station battery consistently stores all the energy provided by the generator without losses, resulting in a significantly higher efficiency compared to operating the generator directly with devices.



**Fuel cost  
savings**



**Reduced engine  
wear and tear**



**Lower maintenance  
costs**



**Less noise –  
more comfort**



**Fewer  
emissions**



# POWERFUL PORTABLE POWER STATIONS

## ADVANTAGES OF PORTABLE POWER STATIONS FROM KÖNNER & SÖHNEN®



Könnér & Söhnen® portable power stations offer maximum value, reliability, durability, and safety! They are the best choice for home and business!

### KS 2500PS

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Rated Power                          | 2500 W                               |
| Capacity                             | 2560 Wh (100 Ah)                     |
| <b>PV INPUT</b>                      |                                      |
| Maximum charging current             | 60 A                                 |
| Maximum charging power               | 1,6 kW                               |
| MPPT voltage range from solar panels | 30~128 V (DC)                        |
| <b>AC INPUT</b>                      |                                      |
| Rated Input Voltage                  | 230 V ± 5% (AC)                      |
| Maximum charging current             | 60 A                                 |
| USB Output                           | 4 x USB Type A (5 B), 1 x USB Type C |
| AC Output                            | 3 x Schuko 230 V                     |
| DC Output                            | 2 x DC 12 V                          |
| Gross dimensions (LxWxH)             | 485x420x356 mm                       |
| Gross weight                         | 31 kg                                |



- UMaximum protection level
- Uninterruptible Power Supply (UPS)
- Quiet operation



## KS 3000PS

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Rated Power                          | 3000 W                               |
| Capacity                             | 3200 Wh (120 Ah)                     |
| <b>PV INPUT</b>                      |                                      |
| Maximum charging current             | 60A (±3A)                            |
| Maximum charging power               | 1,6 kW                               |
| MPPT voltage range from solar panels | 30~128 V (DC)                        |
| <b>AC-EINGANG</b>                    |                                      |
| Rated Input Voltage                  | 230 V ± 5% (AC)                      |
| Maximum charging current             | 60 A                                 |
| USB Output                           | 4 x USB Type A (5 B), 1 x USB Type C |
| AC Output                            | 4 x Schuko 230 V                     |
| DC Output                            | 2 x DC 12 V                          |
| Gross dimensions (LxWxH)             | 550×380×670 mm                       |
| Gross weight                         | 37 kg                                |



### MULTI-LEVEL PROTECTION AGAINST:

- Overcurrent
- Overcharging
- Excessive discharge
- Overheating
- Short circuit

## KS 5200PS

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| Rated Power                          | 5200 W                               |
| Capacity                             | 5120 Wh (100 Ah)                     |
| <b>PV INPUT</b>                      |                                      |
| Maximum charging current             | 100A (±3A)                           |
| Maximum charging power               | 5 kW                                 |
| MPPT voltage range from solar panels | 150~430 V (DC)                       |
| <b>AC INPUT</b>                      |                                      |
| Rated Input Voltage                  | 230 V ± 5% (AC)                      |
| Maximum charging current             | 80 A                                 |
| USB Output                           | 4 x USB Type A (5 B), 1 x USB Type C |
| AC Output                            | 4 x Schuko 230 V                     |
| DC Output                            | 2 x DC 12 V                          |
| Gross dimensions (LxWxH)             | 599×404×682 mm                       |
| Gross weight                         | 58 kg                                |



### MULTI-LEVEL PROTECTION AGAINST:

- Overcurrent
- Overcharging
- Excessive discharge
- Overheating
- Short circuit

## LiFePO<sub>4</sub> BATTERY

LiFePO<sub>4</sub> batteries are safer than Li-ion batteries, as they are less prone to overheating and ignition. In addition, LiFePO<sub>4</sub> batteries are more resistant to extreme temperatures and can operate over a wider temperature range than some Li-ion batteries.

## PORTABLE POWER STATION



| BATTERY                                    |  |                           |                                     |                                  |
|--|--|---------------------------|-------------------------------------|----------------------------------|
| Capacity                                   | 294 Wh                                   | 448 Wh                    | 1030 Wh                             | 2240 Wh                          |
| Cell type                                  | Lithium Iron Phosphate LifePO4 Batteries |                           |                                     |                                  |
| Cell capacity                              | 23 Ah                                    | 35 Ah                     | 23 Ah                               | 50 Ah                            |
| Cell Qty                                   | 4 pcs.                                   | 4 pcs.                    | 14 pcs.                             | 14 pcs.                          |
| Single cell voltage                        | 3,2 V                                    | 3,2 V                     | 3,2 V                               | 3,2 V                            |
| Lifecycle                                  | 4000 cycles ≥ 80% of the time            |                           |                                     |                                  |
| AC OUTPUT                                  |  |                           |                                     |                                  |
| AC socket                                  | 230 V/50 Hz                              |                           | 2×230 V/50 Hz                       | 4×230 V/50 Hz                    |
| Rated power                                | 300 W                                    | 500 W                     | 1200 W                              | 2400 W                           |
| Peak power                                 | 500 W (20 mc)                            | 1000 W (20 mc)            | 2400 W (20 mc)                      | 4800 W (20 mc)                   |
| Conversion efficiency                      | ≥92%                                     | ≥92%                      | ≥92%                                | ≥92%                             |
| DC OUTPUT                                  |  |                           |                                     |                                  |
| Type-C port                                | Type-C1: PD100 W                         |                           | Type-C1: PD 100 W, Type-C2: PD 45 W |                                  |
| USB-A port                                 | 2×USB-A QC 3,0 18 W                      |                           |                                     |                                  |
| Car cigarette lighter                      | 12 V/10 A                                | 12 V/10 A                 | 12 V/10 A                           | 12 V/10 A                        |
| DC-5525 port                               | 12 V/10 A                                | 12 V/10 A                 | 2×12 V/10 A                         | 2×12 V/10 A                      |
| INPUT                                      |  |                           |                                     |                                  |
| 0 to 100% charging with adapter via DC7909 | 100 W Adapter<br>20 V/5 A                | 100 W Adapter<br>20 V/5 A | -                                   | -                                |
| 0 to 100% charging from AC outlet          | -  | -                         | 1000Wh around<br>2 h full charge    | 2000Wh around<br>2 h full charge |
| Charging with MPPT PV module               | DC 7909,<br>max 120 W                    | DC 7909,<br>max 120 W     | XT60<br>max 800 W                   | XT60<br>max 800 W                |
| XT60 charging                              | -  | -                         | 12-59 V<br>maks 800 W               | 2×12-59 V<br>maks 500 W          |
| Extra battery port                         | -  | -                         | -                                   | 2 pcs.                           |
| LED Flashlight                             | +  | +                         | -                                   | -                                |
| Bluetooth                                  | Bluetooth 5.0                            |                           |                                     |                                  |
| Application management                     | +  | +                         | +                                   | +                                |
| Net dimensions (LxWxH)                     | 340×105×185 mm                           | 340×105×185 mm            | 340×220×254 mm                      | 409×299×307 mm                   |
| Net weight                                 | 4,3 kg                                   | 4,9 kg                    | 12,4 kg                             | 25,9 kg                          |
| Gross weight                               | 5,8 kg                                   | 6,6 kg                    | 13,4 kg                             | 28,6 kg                          |
| Storage Temp                               | -10 °C + 45 °C                           |                           |                                     |                                  |
| Working Temp                               | -10 °C + 40 °C                           |                           |                                     |                                  |
| Charging Temp                              | -10 °C + 40 °C                           |                           |                                     |                                  |



Powerful models of portable chargers (KS 1200PS and KS 2400PS) come with a LiFePO4 battery fast-charging device that charges the station quickly and safely. In just 2 hours, the battery reserve will be replenished, and the station will be ready for operation.



Portable power stations Könnér & Söhnen® are equipped with Power Delivery technology, which ensures fast charging batteries of modern smartphones and even laptops.



We value the environment and strive to minimize the impact of our products on the surroundings. Therefore, we implement cutting-edge technologies that allow us to reduce the harmful impact on the environment.



**KS 2500PS**



**KS 3000PS**



**KS 5200PS**

## EFFECTIVE PORTABLE POWER STATIONS

|  |  |                         |                         |
|--|--|-------------------------|-------------------------|
| Rated Power                            | 2500 W                                   | 3000 W                  | 5200 W                  |
| Battery capacity                       | 2560 Wh (100 Ah)                         | 3200 Wh (120 Ah)        | 5120 Wh (100 Ah)        |
| Battery Type                           | Lithium Iron Phosphate LifePO4 Batteries |                         |                         |
| Nominal voltage                        | 25,6 B (DC)                              | 25,6 B (DC)             | 51,2 B (DC)             |
| The shape of the output                | Pure Sine Wave                           |                         |                         |
| AC Voltage Output                      | 230 V                                    | 230 V                   | 230 V                   |
| Nominal battery voltage                | 25,6 V (DC)                              | 25,6 V (DC)             | 51,2 V (DC)             |
| Efficiency                             | 90%                                      | 90%                     | 90%                     |
| PV INPUT                               |  |                         |                         |
| Maximum current                        | 60 A                                     | 60 A                    | 100 A                   |
| Efficiency of the MPP converter        | max. 98%                                 |                         |                         |
| Maximum idle voltage from solar panels | 145 V (DC)                               | 160 V (DC)              | 450 V (DC)              |
| MPPT voltage range from solar panels   | 30~128 V (DC)                            | 30~128 V (DC)           | 150~430 V (DC)          |
| AC INPUT                               |  |                         |                         |
| Maximum charging current               | 60 A                                     | 60 A                    | 80 A                    |
| Rated Input Voltage                    | 230 V ± 5% (AC)                          | 230 V ± 5% (AC)         | 230 V ± 5% (AC)         |
| Input Voltage Range                    | 90-280 V (AC)                            | 90-280 V (AC)           | 90-280 V (AC)           |
| Frequency Range                        | 50 Hz                                    | 50 Hz                   | 50 Hz                   |
| Transfer Time                          | 10 (UPS, VDE); 20 (APL)                  | 10 (UPS, VDE); 20 (APL) | 10 (UPS, VDE); 20 (APL) |
| AC output                              | 3 × Schuko 230 V/50 Hz                   | 4 × Schuko 230 V/50 Hz  | 4 × Schuko 230 V/50 Hz  |
| DC output                              | 2 × DC 12 V                              |                         |                         |
| USB Output                             | 4 × Type A (5V), 1 × Type C (5V)e        |                         |                         |
| Gross dimensions (LxWxH)               | 485x420x356 mm                           | 550x380x670 mm          | 599x404x682 mm          |
| Net weight                             | 31 kg                                    | 37 kg                   | 58 kg                   |
| Gross weight                           | 33 kg                                    | 43 kg                   | 72 kg                   |



LiFePO4 batteries are safer than Li-ion batteries, being less prone to overheating and combustion. Additionally, LiFePO4 batteries demonstrate greater resilience to extreme temperatures and can operate within a wider temperature range compared to some Li-ion equivalents. Utilizing renewable energy sources contributes to environmental conservation.





# LITHIUM IRON PHOSPHATE BATTERIES

 ≤ 6000 CYCLES

The latest energy-saving systems – Lithium-Iron-Phosphate batteries from Könnor & Söhnen® – are modern energy storage devices, making them an ideal choice for solar power plants and other backup power systems, as well as for uninterruptible power supply systems.



The modern, reliable LiFePO4 batteries from Könnor & Söhnen® provide an incredible 6,000 charge-discharge cycles, which means over 15 years of daily use! Equipped with a multi-level protection system, including protection against overheating and short circuits, they are non-flammable, making them extremely safe to use.



### ✓ HIGH POWER

Compared to conventional lead-acid batteries, LiFePO4 can handle higher currents both during charging and discharging, ensuring an incredibly fast charge replenishment rate and enabling their effective operation under high current loads.

### ✓ HIGH CAPACITY AND ENERGY DENSITY

LiFePO4 technology ensures long-lasting high capacity over many years of use, providing a higher energy density for storing more energy in a smaller volume.

### ✓ THE SAFEST BATTERY

Equipped with maximum multi-level protection for all necessary parameters, resistant to overloads, overvoltage, and overheating, and do not explode when overheated.

### ✓ LONGEVITY

Capable of withstanding an incredible number of charge-discharge cycles, with a lifespan of up to 15 years.

### ✓ FLEXIBLE INSTALLATION

Can be installed in various ways: vertically on a wall or horizontally on a trolley, saving space and offering a convenient solution based on individual needs.

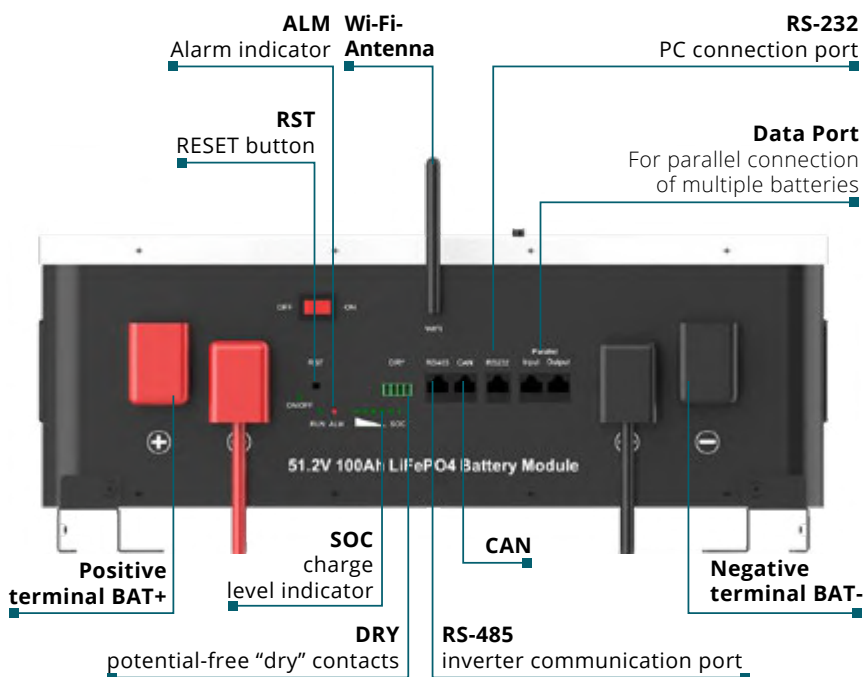


Durable metal case

The LCD display shows key battery parameters, helping to configure and monitor its operation

#### INCLUDED:

- Connection cable for inverter
- Connection cable for PC
- Mounting set (mounting plate and anchor bolts)
- Ring terminals for power wire (bolt size 8)
- Wi-Fi antenna



Easy installation



Simple connection



Space saving



High capacity



SMART BMS protection system

## SCALABLE UP TO 15 MODULES IN PARALLEL CONNECTION



#### Wi-Fi

for connection to a smartphone and remote control of the system, as well as monitoring its status through the app



#### Up to 15 modules

in parallel connection



#### Communication ports RS485, CAN, RS232

for connecting to inverters and PCs



#### LCD-Display

for setting and monitoring the main operating parameters of the battery



#### SMART BMS (Battery Management System)

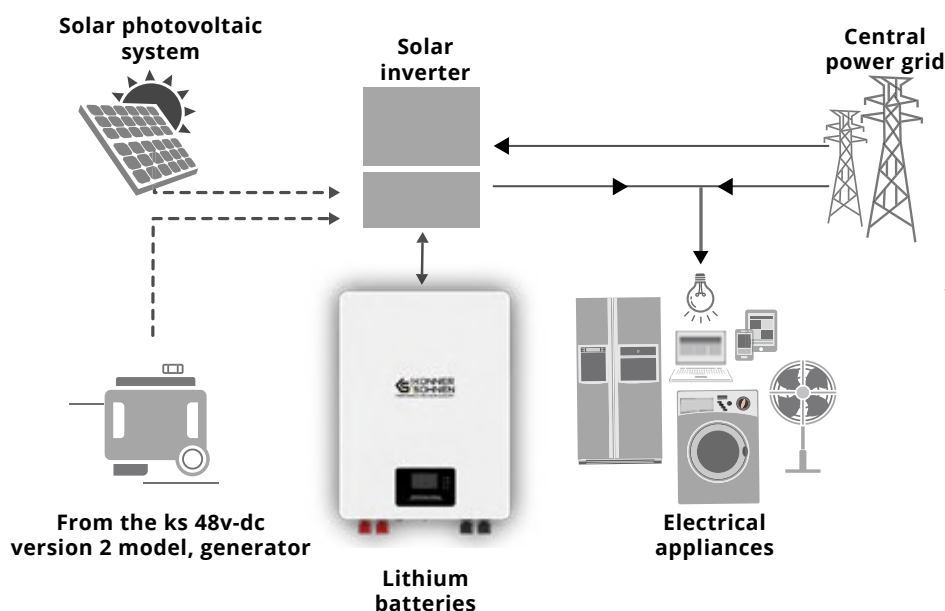
multi-level protection



MODULAR DESIGN ENABLES A  
SIGNIFICANT CAPACITY INCREASE BY  
ADDING MODULES



# LIFEPO4 BATTERIES



## CONNECTION DIAGRAM

You can store energy in three different ways:

- From solar panels
- From the central power grid
- From a generator

### KS LB 24-100

|  |                  |
|--|------------------|
| Rated voltage                                | 25,6 V           |
| Battery capacity                             | 2560 Wh (100 Ah) |
| Discharge voltage                            | 21,6 - 29,2 V    |
| Recommended charging/<br>discharging current | 50 A (0,5C)      |
| Max charging/discharging current             | 100 A (1C)       |
| Protection class                             | IP21             |
| Net dimensions (LxWxH)                       | 557×547×227 mm   |
| Net weight                                   | 27 kg            |



### KS LB 48-100

|  |                  |
|--|------------------|
| Rated voltage                                | 51,2 V           |
| Battery capacity                             | 5120 Wh (100 Ah) |
| Discharge voltage                            | 43,2 - 58,4 V    |
| Recommended charging/<br>discharging current | 50 A (0,5C)      |
| Max charging/discharging current             | 100 A (1C)       |
| Protection class                             | IP21             |
| Net dimensions (LxWxH)                       | 700×569×327 mm   |
| Net weight                                   | 45 kg            |



## LITHIUM BATTERY TROLLEY

A four-wheeled stand specially designed for the installation and easy movement of heavy lithium batteries to the required location, minimizing physical effort.

✓ The stand optimizes the placement of five batteries.



### KS TROLLEY 24

|                        |                |
|------------------------|----------------|
| Suitable for           | KS LB 24-100   |
| Net dimensions (LxWxH) | 484×427×120 mm |

### KS TROLLEY 48

|                        |                |
|------------------------|----------------|
| Suitable for           | KS LB 48-100   |
| Net dimensions (LxWxH) | 640×487×142 mm |





**KS LB 24-100**



**KS LB 48-100**

## BATTERIES LiFePO4

|                               |   |   |
|-------------------------------|---|---|
| Rated voltage                 | 25,6 V  | 51,2 V  |
| Battery capacity              | 2560 Wh (100 Ah)  | 5120 Wh (100 Ah)  |
| AC output voltage             | 230 V   | 230 V   |
| Discharge voltage             | 21,6 – 29,2 V   | 43,2 – 58,4 V   |
| Charging voltage              | 29,2 V  | 58,4 V  |
| Recommended charging current  | 50 A (0,5C)   | 50 A (0,5C)   |
| Maximum charging current      | 100 A (1C)  | 100 A (1C)  |
| Maximum discharge current     | 50 A (0,5C)   | 50 A (0,5C)   |
| Recommended discharge current | 100A (1C)   | 100A (1C)   |
| Communication                 | RS-485 / RS-232 / CAN-bus   | RS-485 / RS-232 / CAN-bus   |
| Depth of discharge (DOD)      | 95%   | 95%   |
| Operation temperature         | 0 °C to 45 °C (during charging)<br>-10 °C to 45 °C (during discharging) | 0 °C to 45 °C (during charging)<br>-10 °C to 45 °C (during discharging) |
| Storage temperature           | 0 °C to 35 °C   | 0 °C to 35 °C   |
| Protection class              | IP21  | IP21  |
| Humidity                      | 5–95% (relative)  | 5–95% (relative)  |
| Maximum operating altitude    | up to 4000 m above sea level  | up to 4000 m above sea level  |
| Net dimensions (LxWxH)        | 557×547×227 mm  | 700×569×327 mm  |
| Net weight                    | 27 kg   | 45 kg   |



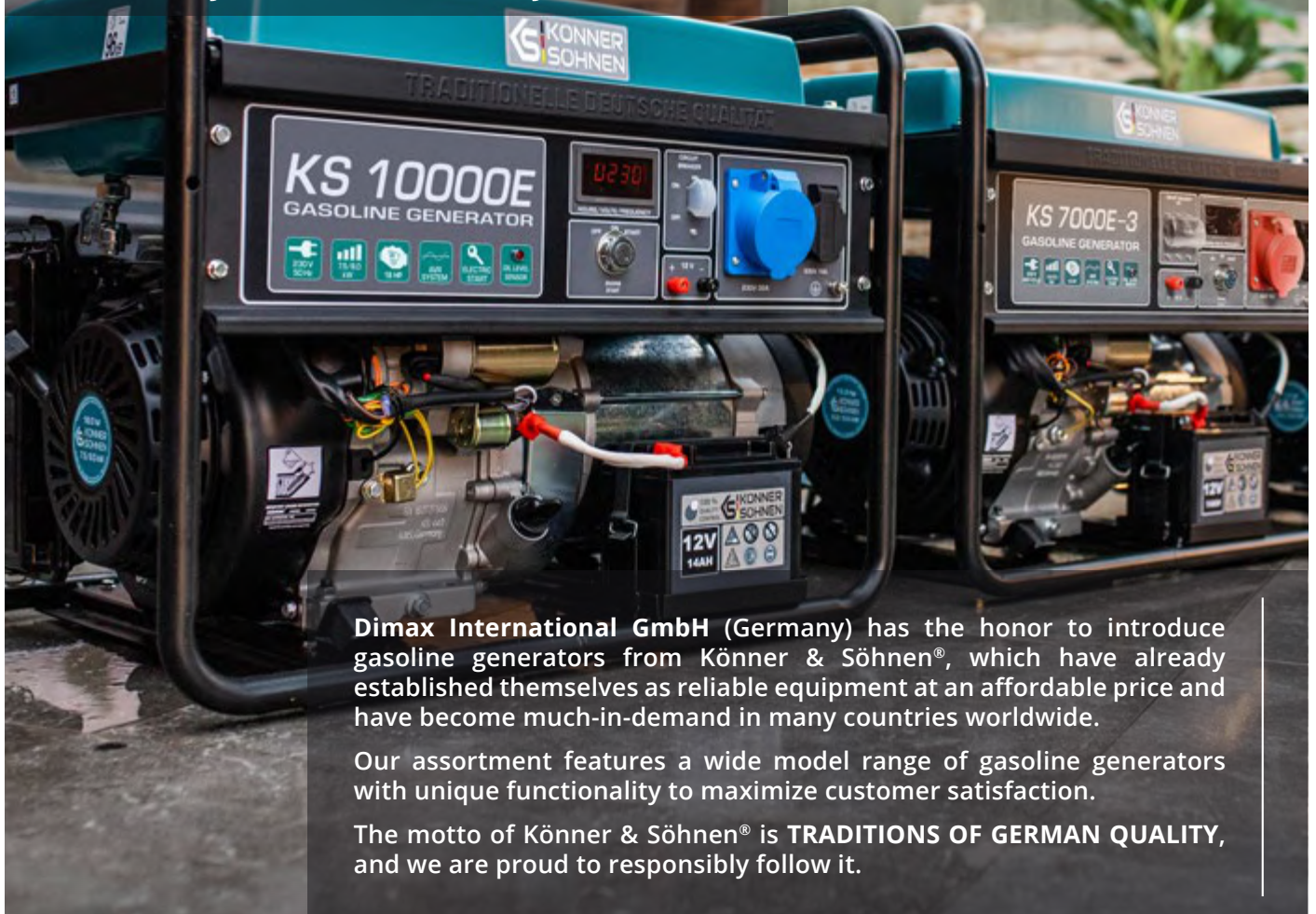
Könnér & Söhnen® batteries are equipped with a multi-level protection system – **SMART BMS (Battery Management System)**. This system uses a specialized computer and sensors to monitor and control battery operation. The sensors test temperature, current, battery capacity, and other parameters. The main purpose of the system is to ensure safe battery usage, maintain stable operation, and extend its lifespan.



# GASOLINE GENERATORS



2,5 kW–15,6 kVA



Dimax International GmbH (Germany) has the honor to introduce gasoline generators from Könnér & Söhnen®, which have already established themselves as reliable equipment at an affordable price and have become much-in-demand in many countries worldwide.

Our assortment features a wide model range of gasoline generators with unique functionality to maximize customer satisfaction.

The motto of Könnér & Söhnen® is **TRADITIONS OF GERMAN QUALITY**, and we are proud to responsibly follow it.





**Gasoline generators from Könnér & Söhnen®** are modern, high-quality equipment that is used in multiple areas as a reliable backup power source.

Our assortment features a wide model range of gasoline generators with unique functionality to maximize customer satisfaction. The range of gasoline generators comprises 2,5 kW – 15,6 kVA models with manual, electric and automatic start for single- and three-phase appliances, equipped with a multifunctional LED-display, automatic circuit breakers for overload and low oil level.

Könnér & Söhnen® generators meet the highest international quality standards, including the latest Euro 5 emission standard.

**Generator power**



**2,6 kW–15,6 kVA**

**Voltage**



**230V/400V**

**Engine start**

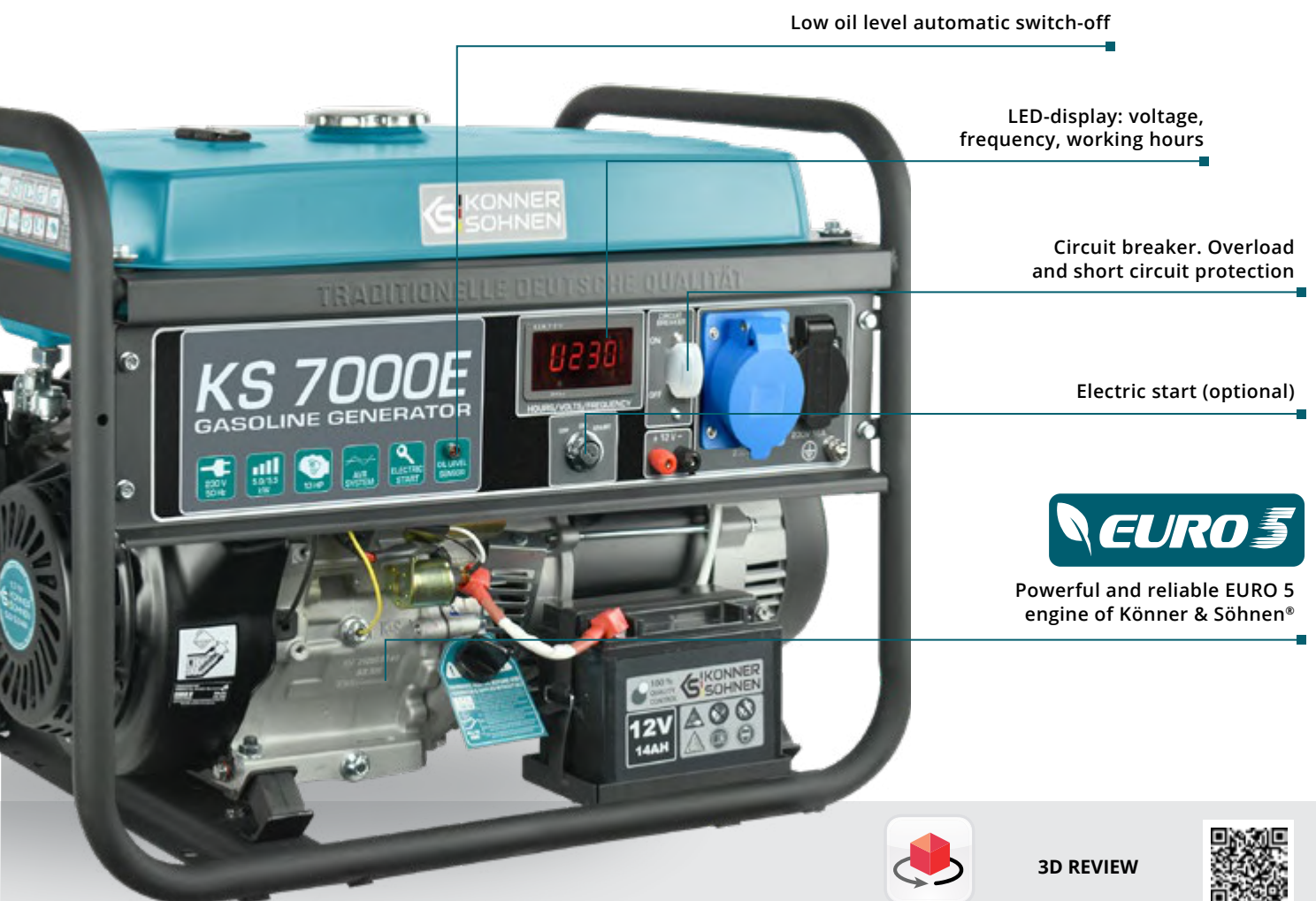


**MANUAL/ELECTRIC**

**Engine power**



**6,5–18 HP**



GASOLINE GENERATORS



**3D REVIEW**



**REVIEW VIDEO  
OF GENERATOR  
IN WORK**

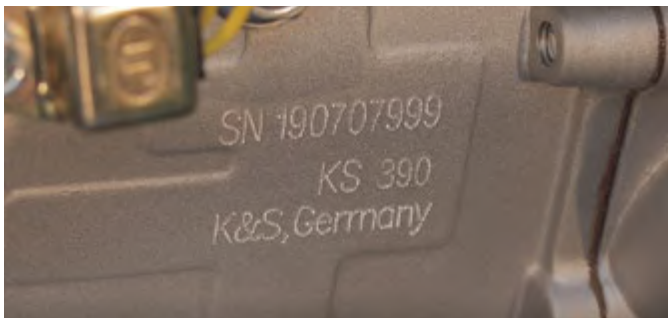






# GASOLINE GENERATORS

Thanks to the introduction of cutting-edge technologies and innovative solutions, Könnor & Söhnen® equipment meets the highest international quality standards, including the latest Euro 5 emission standard.



## RELIABLE BRANDED ENGINES

Könnor & Söhnen® engines are reliable, high-performance and cost-effective, and conform to European quality standards. Each engine has a corporate K&S stamp and an individual serial number in order to ensure the quality control of manufacture and after-sales service.



## ALTERNATOR WITH 100% COPPER WINDING

Könnor & Söhnen® generators are equipped with a high-end synchronous alternator with 100% copper winding. It is only the copper winding that can withstand maximum loads without any damage to ensure long-term reliable operation of the generator set.

*\*In models KS 2900, KS 2900G, KS 5000E G alternator with aluminum winding.*



## USER-FRIENDLY ERGONOMIC CONTROL PANEL

The ergonomic generator control panel allows easy operation thanks to the convenient location of all functions: modern LEDdisplay (hour meter, frequency, voltage), electric start (optional), overload circuit breaker, low oil level sensor, sockets, grounding connector, terminals, etc.



## DOUBLE ANTI-VIBRATION SYSTEM

Könnor & Söhnen® generators are equipped with a double antivibration system to ensure noise reduction and extend the service life of the generator. Engines are mounted on top-notch rubber bearings. The reinforced steel frame has additional rubber mounts for protection against sliding, corrosion, and vibration.

## KS 2900



|                        |                       |
|------------------------|-----------------------|
| Max power              | <b>2,9 kW</b>         |
| Nominal power          | <b>2,5 kW</b>         |
| Voltage                | <b>230 V</b>          |
| Engine start           | <b>manual</b>         |
| Outlets                | <b>2x16A</b>          |
| Net dimensions (LxWxH) | <b>580x430x440 mm</b> |
| Net weight             | <b>41,5 kg</b>        |



## KS 3000



|                        |                       |
|------------------------|-----------------------|
| Max power              | <b>3,0 kW</b>         |
| Nominal power          | <b>2,6 kW</b>         |
| Voltage                | <b>230 V</b>          |
| Engine start           | <b>manual</b>         |
| Outlets                | <b>2x16A</b>          |
| Net dimensions (LxWxH) | <b>580x430x440 mm</b> |
| Net weight             | <b>41,5 kg</b>        |



## KS 3000E



|                        |                        |
|------------------------|------------------------|
| Max power              | <b>3,0 kW</b>          |
| Nominal power          | <b>2,6 kW</b>          |
| Voltage                | <b>230 V</b>           |
| Engine start           | <b>manual/electric</b> |
| Outlets                | <b>2x16A</b>           |
| Net dimensions (LxWxH) | <b>580x430x440 mm</b>  |
| Net weight             | <b>46,1 kg</b>         |



## KS 7000



|                        |                       |
|------------------------|-----------------------|
| Max power              | <b>5,5 kW</b>         |
| Nominal power          | <b>5,0 kW</b>         |
| Voltage                | <b>230 V</b>          |
| Engine start           | <b>manual</b>         |
| Outlets                | <b>1x16A, 1x32A</b>   |
| Net dimensions (LxWxH) | <b>680x545x550 mm</b> |
| Net weight             | <b>69,2 kg</b>        |







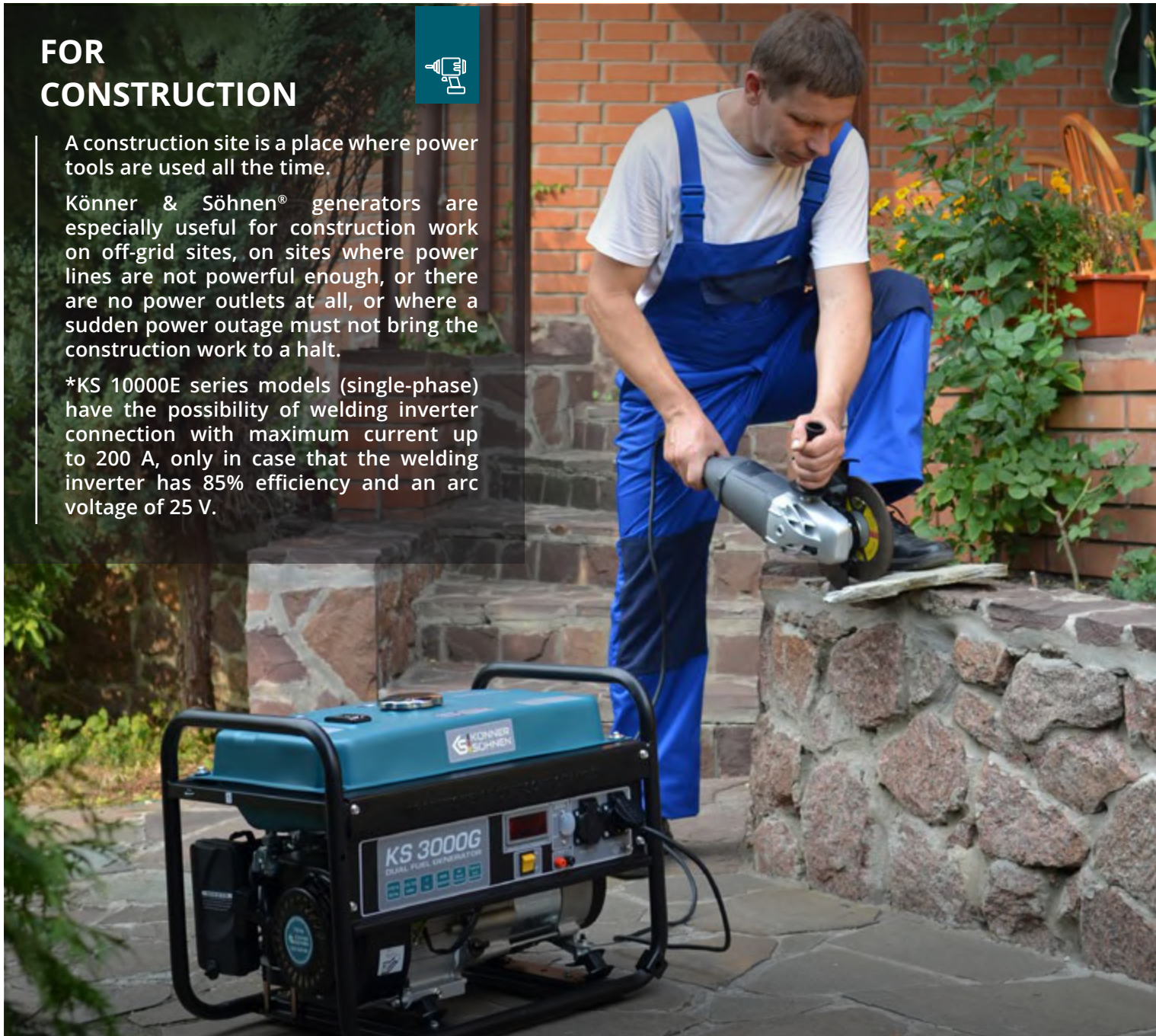
## FOR CONSTRUCTION



A construction site is a place where power tools are used all the time.

Könner & Söhnen® generators are especially useful for construction work on off-grid sites, on sites where power lines are not powerful enough, or there are no power outlets at all, or where a sudden power outage must not bring the construction work to a halt.

\*KS 10000E series models (single-phase) have the possibility of welding inverter connection with maximum current up to 200 A, only in case that the welding inverter has 85% efficiency and an arc voltage of 25 V.





## KS 7000E



|                        |                 |
|------------------------|-----------------|
| Max power              | 5,5 kW          |
| Nominal power          | 5,0 kW          |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| Outlets                | 1x16A, 1x32A    |
| Net dimensions (LxWxH) | 680x545x550 mm  |
| Net weight             | 76,2 kg         |



## KS 7000E-3



|                        |                                 |
|------------------------|---------------------------------|
| Max power              | 5,5 kW                          |
| Nominal power          | 5,0 kW                          |
| Voltage                | 400 V                           |
| Engine start           | manual/electric                 |
| Outlets                | 1x16A (230 V),<br>1x16A (400 V) |
| Net dimensions (LxWxH) | 680x545x550 mm                  |
| Net weight             | 80,8 kg                         |



## KS 10000E



|                        |                 |
|------------------------|-----------------|
| Max power              | 8,0 kW          |
| Nominal power          | 7,5 kW          |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| Outlets                | 1x16A, 1x32A    |
| Net dimensions (LxWxH) | 680x545x550 mm  |
| Net weight             | 85,5 kg         |



## KS 10000E-3



|                        |                                 |
|------------------------|---------------------------------|
| Max power              | 8,0 kW                          |
| Nominal power          | 7,5 kW                          |
| Voltage                | 400 V                           |
| Engine start           | manual/electric                 |
| Outlets                | 1x16A (230 V),<br>1x16A (400 V) |
| Net dimensions (LxWxH) | 680x545x550 mm                  |
| Net weight             | 88 kg                           |





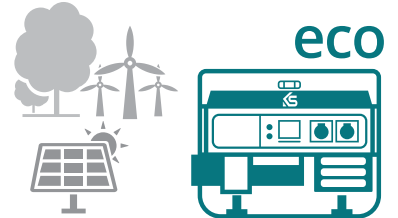
# GASOLINE GENERATORS WITH ATS SYSTEM

One of the unique features of our generators is a **built-in ATS** (automatic transfer switch) system. This system allows generator to monitor central power availability and to automatically switch itself on when the electricity is turned off and then automatically switch off when the power is available again. The function becomes irreplaceable and extremely convenient in buildings with severe temperature or light conditions in the absence of personnel control.

It does not require any additional sophisticated equipment to run automatic reserve entry. ATS unit is already built into the generator, installation is as simple as possible and the cost of these models is highly affordable.

## "GREEN" ENERGY COMPATIBILITY

Integration with "green" energy (solar, wind power plants) - generators with built-in ATS system can be connected to the solar inverter controller to start automatic battery charging and providing electricity supply to the house.

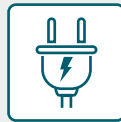


### Generator power



5,0 kW–8,0 kW

### Voltage



230V/400V

### Engine start



MANUAL/ELECTRIC/AUTO

### Engine power



13–18 HP



LED-display: voltage, frequency, working hours

ATS switch  
ATS operation indicator

Circuit breaker. Overload and short circuit protection

External power supply connectors



Powerful and reliable EURO 5 engine of Könnér & Söhnen®



3D REVIEW



REVIEW VIDEO  
OF GENERATOR  
IN WORK

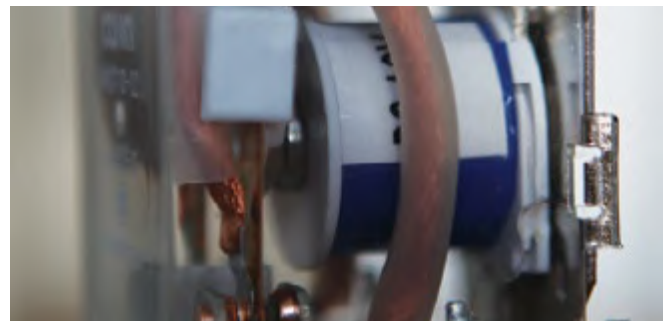






#### BUILT-IN ATS SYSTEM

The generator control panel with the ATS function (automatic transfer switch) is equipped with power terminals, ATS switch and ATS operation indicator.



#### SWITCHING CONTACTORS

Reliable 100% copper switching contactors have an increased capacity of 40 A, which ensures long-term fail-safe performance of the ATS system.



#### 230 V OR 400 V

The presented series includes models for single- and three-phase consumers. The generator control panel with the ATS function has corresponding 230V and 400V mains terminals.



#### LED DISPLAY

The display shows information about frequency, voltage and operating hours of the generator in order to ensure timely maintenance of the generator and extend its service life.





## GASOLINE GENERATORS WITH ATS SYSTEM



### FOR HOME

Occasional power outages can interfere with the comfort of country life.

Könner & Söhnen® gasoline generators are the ideal backup power source for private homes that guarantee your usual daily routine in an emergency. With a Könner & Söhnen® generator, every family gets reliable protection and can enjoy everyday life and use critical appliances during power outages.

These high-performance units exhibit consistent performance and can power various single-phase and three-phase household appliances. They are more space-efficient and easy to maintain than diesel generators.





## KS 7000E ATS



|                        |                      |
|------------------------|----------------------|
| Max power              | 5,5 kW               |
| Nominal power          | 5,0 kW               |
| Voltage                | 230 V                |
| Engine start           | manual/electric/auto |
| Outlets                | 1x16A, 1x32A         |
| Net dimensions (LxWxH) | 680x545x550 mm       |
| Net weight             | 76,8 kg              |



## KS 7000E-3 ATS



|                        |                                 |
|------------------------|---------------------------------|
| Max power              | 5,5 kW                          |
| Nominal power          | 5,0 kW                          |
| Voltage                | 400 V                           |
| Engine start           | manual/electric/auto            |
| Outlets                | 1x16A (230 V),<br>1x16A (400 V) |
| Net dimensions (LxWxH) | 680x545x550 mm                  |
| Net weight             | 82,3 kg                         |



## KS 10000E ATS



|                        |                      |
|------------------------|----------------------|
| Max power              | 8,0 kW               |
| Nominal power          | 7,5 kW               |
| Voltage                | 230 V                |
| Engine start           | manual/electric/auto |
| Outlets                | 1x16A, 1x32A         |
| Net dimensions (LxWxH) | 680x545x550 mm       |
| Net weight             | 87,8 kg              |



## KS 10000E-3 ATS



|                        |                                 |
|------------------------|---------------------------------|
| Max power              | 8,0 kW                          |
| Nominal power          | 7,5 kW                          |
| Voltage                | 400 V                           |
| Engine start           | manual/electric/auto            |
| Outlets                | 1x16A (230 V),<br>1x16A (400 V) |
| Net dimensions (LxWxH) | 680x545x550 mm                  |
| Net weight             | 89,2 kg                         |



\*KS 10000E series models (single-phase) have the possibility of welding inverter connection with maximum current up to 200 A, only in case that the welding inverter has 85% efficiency and an arc voltage of 25 V.

\*\* Generator can be connected to the solar charge controller.



# GASOLINE GENERATORS WITH VTS SYSTEM

## Universal high-performance generators 2 in 1 from Könner & Söhnen®!

There is no need to purchase two separate generators for single- and three-phase consumers since Könner & Söhnen® generators with a unique innovative VTS (Voltage Transfer Switch) phase switching system provide equal power for single-phase (230V) and three-phase (400V) appliances thanks to innovative technology.

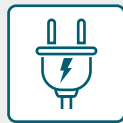
It is no longer necessary even to stop the generator engine: just switch to the required mode, enable the appropriate circuit breakers (ON) and connect the appliances.

### Generator power



**5,0 kW–8,0 kW**

### Voltage



**230V/400V**

### Engine start



**MANUAL/ELECTRIC**

### Engine power



**13–18 HP**

- ✓ Equal power for single-phase (230V) and three-phase (400V) - unique innovative VTS system
- ✓ High-performance gasoline engines from Könner & Söhnen® conform to latest standard of emission EURO 5.

- ✓ Alternator specially designed for single- and three-phase operation without loss of power
- ✓ Automatic overload and short circuit protection

Circuit breaker.  
Overload and short circuit  
protection for each mode 230V / 400V

LED-display: voltage,  
frequency, working hours

VTS phase switching system

Outlets for single-phase  
and three-phase consumers



Powerful and reliable EURO 5  
engine of Könner & Söhnen®

Specially designed alternator  
for single-phase and three-phase  
operation modes. 100% copper winding



3D REVIEW



REVIEW VIDEO  
OF GENERATOR  
IN WORK







#### VTS SYSTEM

The unique innovative VTS (voltage Transfer Switch) phase switching system with equal power for single-phase (230V) and three-phase (400V) consumers. Each mode has its own circuit breaker.



#### SYNCHRONOUS ALTERNATOR

The synchronous alternator with integrated intelligent AVR system is specially designed for single- and three-phase operation without loss of power. High workmanship and copper winding can withstand prolonged ultimate loads.



#### HIGH-PERFORMANCE ENGINE

Each Könnér & Söhnen® engine is equipped with a backup power supply, which ensures Könnér & Söhnen® generators deliver the declared power for sure! K&S engines conform to European quality standards, including the latest standard of emission EURO 5.



#### EQUIPMENT

The generator panel is equipped with ergonomic connectors for connecting single- and three-phase consumers. High-output sockets are made of high-quality heat-resistant plastic.



# GASOLINE GENERATORS WITH VTS SYSTEM



## KS 7000E-1/3

|                             |                                |
|-----------------------------|--------------------------------|
| Max power/Nom. power, 230 V | 5,5/5,0 kW                     |
| Max power/Nom. power, 400 V | 5,5/5,0 kW                     |
| Voltage                     | 230 V/400 V                    |
| Engine start                | manual/electric                |
| Outlets                     | 1x16A (400 V)<br>1x32A (230 V) |
| Net dimensions (LxWxH)      | 680x545x550 mm                 |
| Net weight                  | 81 kg                          |



## KS 10000E-1/3

|                             |                                |
|-----------------------------|--------------------------------|
| Max power/Nom. power, 230 V | 8,0/7,5 kW                     |
| Max power/Nom. power, 400 V | 8,0/7,5 kW                     |
| Voltage                     | 230 V/400 V                    |
| Engine start                | manual/electric                |
| Outlets                     | 1x16A (400 V)<br>1x32A (230 V) |
| Net dimensions (LxWxH)      | 680x545x550 mm                 |
| Net weight                  | 88 kg                          |



KS 10000E series models (single-phase) have the possibility of welding inverter connection with maximum current up to 200 A, only in case that the welding inverter has 85% efficiency and an arc voltage of 25 V.

## Voltage transfer switch system

7.5 kW 230V = 7.5 kW 400V

Allows using the generator both in three-phase mode (400V) and in single-phase mode (230V) without loss of power



The unique innovative phase switching system allows using the generator both in three-phase (400V) and in single-phase mode (230V). It is no longer necessary to purchase two separate generators and maintain them: just switch the mode and use the Könnér & Söhnen® generator with the phase switching system at the required voltage.





# LPG/GASOLINE GENERATORS

DUAL FUEL series LPG/gasoline generators from Könner & Söhnen® can run on both gasoline and liquefied gas (propane-butane). The package includes everything you need to use LPG as fuel.



DUAL FUEL series LPG/gasoline generators from Könner & Söhnen® are currently the most popular among customers due to their efficiency. The generator can run on both gasoline and liquefied gas (propane-butane).

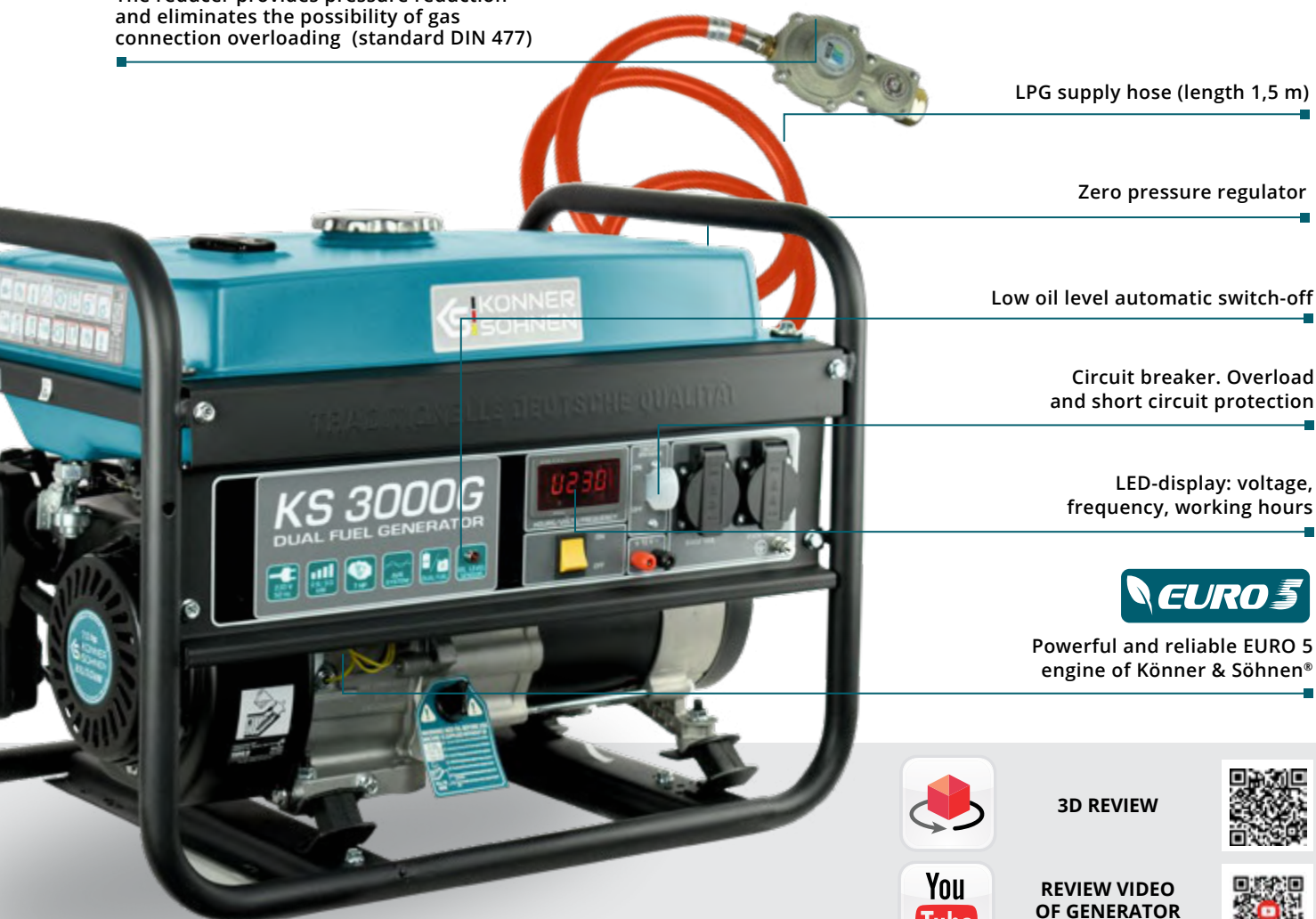
The operation of the generator on LPG increases the service life of the engine. The package includes everything you need to use LPG as fuel: built-in reducer that provides gas supply during engine operation, prevents gas leakage, as well as terminates gas supply when the generator is off; 1.5 m long hose for connecting a gas cylinder provides a convenient connection; the hose is equipped with an additional reducer that is mounted on the cylinder to increase the reliability of the gas line.

Just connect the generator to the cylinder and start the engine. If necessary, LPG/gasoline models can easily be switched to gasoline mode.

✓ There is no need to add gasoline to the fuel tank to start the generator. The generator can start and run directly on LPG.

✓ The most simple connection - you need just connect the hose to your cylinder.

The reducer provides pressure reduction and eliminates the possibility of gas connection overloading (standard DIN 477)



LPG supply hose (length 1,5 m)

Zero pressure regulator

Low oil level automatic switch-off

Circuit breaker. Overload and short circuit protection

LED-display: voltage, frequency, working hours



Powerful and reliable EURO 5 engine of Könner & Söhnen®

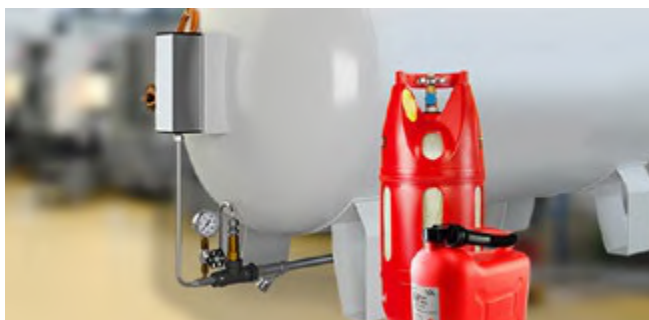


3D REVIEW



REVIEW VIDEO OF GENERATOR IN WORK





### ECONOMICAL CHOICE

Apart from connection to a regular portable gas cylinder, Könnér & Söhnen® LPG/gasoline generators can be connected to an existing 30-50 mBar LPG (propane, butane) distribution system (connection hose is not included). LPG/gasoline models can easily be switched to gasoline operation.



### EQUIPMENT

The package includes everything necessary for using LPG as fuel, specifically zero pressure regulator, the hose for connecting to your gas cylinder, reducer that is mounted on the cylinder. All you need is to connect the generator to the cylinder and start the engine.



### ENVIRONMENTALLY - FRIENDLY ENGINE

LPG is a more environmentally friendly fuel than gasoline. The use of LPG as fuel provides less emissions of harmful exhaust substances into the atmosphere.



### IMPROVED ENGINE EFFICIENCY

When operated on liquefied gas, the engine provides less vibration in a way that facilitates long and stable generator operation and increases engine service life.





## LPG/GASOLINE GENERATORS



### KS 2900G

|                        |                |
|------------------------|----------------|
| Max power              | 2,9 kW         |
| Nominal power          | 2,5 kW         |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 2x16A          |
| Net dimensions (LxWxH) | 580x430x440 mm |
| Net weight             | 43 kg          |



### KS 3000G

|                        |                |
|------------------------|----------------|
| Max power              | 3,0 kW         |
| Nominal power          | 2,6 kW         |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 2x16A          |
| Net dimensions (LxWxH) | 580x430x440 mm |
| Net weight             | 45.4 kg        |



### KS 5000E G

|                        |                 |
|------------------------|-----------------|
| Max power              | 4,5 kW          |
| Nominal power          | 4,0 kW          |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| Outlets                | 2x16A           |
| Net dimensions (LxWxH) | 680x545x550 mm  |
| Net weight             | 77 kg           |



### KS 7000E G

|                        |                 |
|------------------------|-----------------|
| Max power              | 5,5 kW          |
| Nominal power          | 5,0 kW          |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| Outlets                | 1x16A, 1x32A    |
| Net dimensions (LxWxH) | 680x545x550 mm  |
| Net weight             | 77,2 kg         |



## KS 9000E G



|                        |                 |
|------------------------|-----------------|
| Max power              | 6,5 kW          |
| Nominal power          | 6,0 kW          |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| Outlets                | 1x16A, 1x32A    |
| Net dimensions (LxWxH) | 680x545x550 mm  |
| Net weight             | 79 kg           |



## KS 10000E G



|                        |                 |
|------------------------|-----------------|
| Max power              | 8,0 kW          |
| Nominal power          | 7,5 kW          |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| Outlets                | 1x16A, 1x32A    |
| Net dimensions (LxWxH) | 680x545x550 mm  |
| Net weight             | 86,5 kg         |



Liquefied gas (propane-butane) is more environmentally friendly than gasoline. The use of gas as fuel reduces the amount of harmful emissions into the atmosphere.







## GASOLINE 1- AND 2-CYLINDER GENERATORS

Generators for your attention - powerful gasoline **single and two-cylinder models** with 8,0 kW to 15,6 kVA power with the possibility of ATS unit connection. KS 12-1E 1/3 ATSR and KS 15-1E 1/3 ATSR generators also have a unique VTS phase switching technology that enables single-phase (230V) or three-phase (400V) operation with almost no power loss.

Generators are based on robust single- and two-cylinder engines that meet the latest EURO 5 emission standard. Generators are also equipped with convenient, ergonomic control panel with emergency stop button and multi-function LED display to control generator operation - frequency, voltage, hours worked and low oil level. Each model is equipped with outlets to allow you to get maximum power delivered by the device. The capacious 55-liter fuel tank ensures long and continuous operation. Generators have a reinforced  $\varnothing 32$  mm steel frame, equipped with a transport kit to ease transportation. Anti-corrosion electrostatic painting protects the device from mechanical damage and environmental influences.

### Generator power



8,0 kW-15,6 kVA

### Voltage



230V/400V

### Engine start



MANUAL/ELECTRIC

### Engine power



18,5-22 HP



Engine emergency shutdown

LED-display: voltage, frequency,  
working hours, oil alarm

VTS phase switching system for models  
KS 12-1E 1/3 ATSR, KS 15-1E 1/3 ATSR

8-pin ATS input



Reliable 1- or 2-cylinder  
engines Könnér & Söhnen®

**8.0 kW - 15.6 kVA**  
POWERFUL GASOLINE GENERATORS  
BASED ON TWO-CYLINDER ENGINES





### POWERFUL ENGINE

Powerful and reliable 1-, or 2-cylinder engines with air cooling (18.5 - 22 hp) comply with all international and European standards of quality, including latest emission standard EURO 5. Each engine has an individual serial number for control the quality of production and service.



### SYSTEM VTS

Universal generators 2 in 1 have a unique VTS (Voltage Transfer Switch) phase switching system, which allows using a single generator both in single-phase mode (230V) and in three-phase mode (400V) with almost no loss of power. The models are equipped with single-phase and three-phase outlets, which enable the maximum power output of the unit. The generators feature circuit breakers for each operating mode.



### ERGONOMIC CONTROL PANEL

The user-friendly ergonomic control panel allows easy control of the whole device, requires no special skills; modern LED-display (hour meter, frequency, voltage, oil alarm); overload and short circuit protection; ATS input. Panel is equipped with engine emergency switch.



### ATS OUTPUT

The generator is suitable for connecting the ATS (automatic transfer switch) system. The ATS input features a 8-pin connector. The ATS unit automatically starts the generator and transfers load to it when the main power supply is disconnected and automatically stops the generator when the central power supply is restored.





# GASOLINE 1- AND 2-CYLINDER GENERATORS

## KS 12-1E ATSR



|                        |                     |
|------------------------|---------------------|
| Max power              | 9,2 kW              |
| Nominal power          | 9,0 kW              |
| Voltage                | 230 V               |
| Engine start           | manual/electric     |
| Outlets                | 1x63A, 1x32A, 1x16A |
| Net dimensions (LxWxH) | 790x705x680 mm      |
| Net weight             | 120 kg              |



## KS 12-1E 1/3 ATSR



|                             |  |
|-----------------------------|--|
| Max power/Nom. power, 230 V | 8,2/8,0 kW                                       |
| Max power/Nom. power, 400 V | 11,5/11,25 kVA                                   |
| Voltage                     | 230 V/400 V                                      |
| Engine start                | manual/electric                                  |
| Outlets                     | 1x32A (400 V),<br>1x32A (230 V)<br>1x16A (230 V) |
| Net dimensions (LxWxH)      | 790x705x680 mm                                   |
| Net weight                  | 120 kg   |



## KS 15-1E ATSR



|                        |                     |
|------------------------|---------------------|
| Max power              | 12,5 kW             |
| Nominal power          | 12,0 kW             |
| Voltage                | 230 V               |
| Engine start           | electric            |
| Outlets                | 1x63A, 1x32A, 1x16A |
| Net dimensions (LxWxH) | 780x705x680 mm      |
| Net weight             | 155 kg              |



## KS 15-1E 1/3 ATSR



|                             |                                 |
|-----------------------------|---------------------------------|
| Max power/Nom. power, 230 V | 11,5/11,0 kW                    |
| Max power/Nom. power, 400 V | 15,6/15,0 kVA                   |
| Voltage                     | 230 V/400 V                     |
| Engine start                | electric                        |
| Outlets                     | 1x32A (400 V),<br>1x63A (230 V) |
| Net dimensions (LxWxH)      | 780x705x680 mm                  |
| Net weight                  | 155 kg                          |



## AUTOMATIC TRANSFER SWITCH

Gasoline generators of KS 12 and KS 15 series are equipped with a universal **8-pin connector** (ATS input) for an automatic transfer switch unit. The **ATS unit** is suitable for single- and three-phase networks; it can operate both in automatic and in manual mode and has Summer/Winter mode.

The ATS (Automatic Transfer Switch) unit automatically starts the generator and transfers load to it when the main power supply is disconnected and automatically stops the generator when the central power supply is restored.

### KS ATS 4/32-12

|                        |                                |
|------------------------|--------------------------------|
| Power                  | <b>14 kW(230V)/21 kW(400V)</b> |
| Voltage                | <b>230 V/400 V</b>             |
| Current (Max) 230 V    | <b>64 A</b>                    |
| Current (Max) 400 V    | <b>32 A</b>                    |
| Net dimensions (LxWxH) | <b>220x150x370 mm</b>          |
| Net weight, kg         | <b>5,5 kg</b>                  |

Suitable for models KS 12-1E ATSR, KS 12-1E 1/3 ATSR.

### KS ATS 4/32-15

|                        |                                |
|------------------------|--------------------------------|
| Power                  | <b>14 kW(230V)/21 kW(400V)</b> |
| Voltage                | <b>230 V/400 V</b>             |
| Current (Max) 230 V    | <b>64 A</b>                    |
| Current (Max) 400 V    | <b>32 A</b>                    |
| Net dimensions (LxWxH) | <b>220x150x370 mm</b>          |
| Net weight, kg         | <b>5,5 kg</b>                  |

Suitable for models KS 15-1E ATSR, KS 15-1E 1/3 ATSR.







# GASOLINE GENERATORS



KS 2900

KS 2900G

KS 3000

KS 3000E

KS 3000G

|   |   |   |   |                 |   |
|---|---|---|---|-----------------|---|
| Voltage, V                              | 230   | 230   | 230   | 230             | 230   |
| Max power, kW                           | 2,9   | 2,9   | 3,0   | 3,0             | 3,0   |
| Nominal power, kW                       | 2,5   | 2,5   | 2,6   | 2,6             | 2,6   |
| Frequency, Hz                           | 50  | 50  | 50  | 50              | 50  |
| Current, A (max)                        | 12,5  | 12,5  | 13,04   | 13,04           | 13,04   |
| Outlets                                 | 2x16A   | 2x16A   | 2x16A   | 2x16A           | 2x16A   |
| Fuel tank volume, l                     | 15  | 15  | 15  | 15              | 15  |
| Working time at 50% load*, h            | 15  | 15  | 15  | 15              | 15  |
| LED display                             | voltage, frequency, working hours                     |   |   |                 |   |
| Noise level LPA (7 m)/LWA, dB           | 68/93   | 68/93   | 68/93   | 68/93           | 68/93   |
| Power output DC, V/A                    | 12/8,3  | 12/8,3  | 12/8,3  | 12/8,3          | 12/8,3  |
| Engine model                            | KS 200  | KS 200  | KS 210  | KS 210          | KS 210  |
| Engine type                             | gasoline powered one-cylinder, four-stroke air-cooled | LPG/gasoline powered one-cylinder, four-stroke air-cooled | gasoline powered one-cylinder, four-stroke air-cooled |                 | LPG/gasoline powered one-cylinder, four-stroke air-cooled |
| Engine power, hp/kW                     | 6,5/4,78  | 6,5/4,78  | 7,0/5,15  | 7,0/5,15        | 7,0/5,15  |
| Crank case volume, cm <sup>3</sup>      | 0,6   | 0,6   | 0,6   | 0,6             | 0,6   |
| Engine cylinder volume, cm <sup>3</sup> | 196   | 196   | 208   | 208             | 208   |
| Power output controller                 | intelligent voltage stabilization system AVR          |   |   |                 |   |
| Engine start                            | manual  | manual  | manual  | manual/electric | manual  |
| Power factor, cos φ                     | 1,0 (230 V)   | 1,0 (230 V)   | 1,0 (230 V)   | 1,0 (230 V)     | 1,0 (230 V)   |
| Net dimensions (LxWxH), mm              | 580x430x440   | 580x430x440   | 580x430x440   | 580x430x440     | 580x430x440   |
| Gross dimensions (LxWxH), mm            | 610x455x485   | 610x455x485   | 610x455x485   | 610x455x485     | 610x455x485   |
| Net weight, kg                          | 41,5  | 43  | 41,5  | 46,1            | 45,4  |
| Gross weight, kg                        | 43,6  | 47,5  | 43,6  | 47,1            | 47,5  |
| Protection class                        | IP23M   |   |   |                 |   |
| QR code                                 |   |   |   |                 |   |

In models KS 2900, KS 2900G, KS 5000E G alternator with aluminum winding.

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.



**DUAL FUEL series** LPG/gasoline generators from Könnér & Söhnen®. The generator can run on both gasoline and liquefied gas (propane-butane).



Könnér & Söhnen® engines are reliable, high-performance and cost-effective, and conform to European quality standards, including the latest standard of emission **EURO 5**



KS 5000E G

KS 7000

KS 7000E

KS 7000E-3

KS 7000E ATS

|  |  |  |                 |                                |                          |
|--|--|--|-----------------|--------------------------------|--------------------------|
| Voltage, V   | 230  | 230  | 230             | 400                            | 230                      |
| Max power, kW  | 4,5  | 5,5  | 5,5             | 5,5                            | 5,5                      |
| Nominal power, kW                                      | 4,0  | 5,0  | 5,0             | 5,0                            | 5,0                      |
| Frequency, Hz  | 50   | 50   | 50              | 50                             | 50                       |
| Current, A (max)                                       | 19,5   | 23,91  | 23,91           | 13,04                          | 23,91                    |
| Outlets  | 2x16A  | 1x16A, 1x32A   | 1x16A, 1x32A    | 1x16A (230 V)<br>1x16A (400 V) | 1x16A, 1x32A             |
| Fuel tank volume, l                                    | 25   | 25   | 25              | 25                             | 25                       |
| Working time at 50% load*, h                           | 17   | 17   | 17              | 17                             | 17                       |
| LED display  | voltage, frequency, working hours                                    |  |                 |                                |                          |
| Noise level L <sub>PA</sub> (7 m)/L <sub>WA</sub> , dB | 70/95  | 70/95  | 70/95           | 70/95                          | 70/95                    |
| Power output DC, V/A                                   | 12/8,3   | 12/8,3   | 12/8,3          | 12/8,3                         | 12/8,3                   |
| Engine model   | KS 390   | KS 390   | KS 390          | KS 390                         | KS 390                   |
| Engine type  | LPG/gasoline<br>powered one-<br>cylinder, four-<br>stroke air-cooled | gasoline powered one-cylinder,<br>four-stroke air-cooled |                 |                                |                          |
| Engine power, hp/kW                                    | 13,0/9,56  | 13,0/9,56  | 13,0/9,56       | 13,0/9,56                      | 13,0/9,56                |
| Crank case volume, cm <sup>3</sup>                     | 1,1  | 1,1  | 1,1             | 1,1                            | 1,1                      |
| Engine cylinder volume, cm <sup>3</sup>                | 389  | 389  | 389             | 389                            | 389                      |
| Power output controller                                | intelligent voltage stabilization system AVR                         |  |                 |                                |                          |
| Engine start   | manual/electric  | manual   | manual/electric | manual/electric                | manual/electric/<br>auto |
| Power factor, cos φ                                    | 1,0 (230 V)  | 1,0 (230 V)  | 1,0 (230 V)     | 0,8 (400 V)                    | 1,0 (230 V)              |
| Net dimensions (LxWxH), mm                             | 680x545x550  | 680x545x550  | 680x545x550     | 680x545x550                    | 680x545x550              |
| Gross dimensions (LxWxH), mm                           | 700x545x590  | 700x545x590  | 700x545x590     | 700x545x590                    | 700x545x590              |
| Net weight, kg   | 77   | 69,2   | 76,2            | 80,8                           | 76,8                     |
| Gross weight, kg                                       | 79,6   | 71,6   | 78,6            | 83,2                           | 78,8                     |
| Protection class                                       | IP23M  |  |                 |                                |                          |
| QR code  |  |  |                 |                                |                          |

In models KS 2900, KS 2900G, KS 5000E G alternator with aluminum winding.

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.



**Built-in ATS (Automatic transfer switch).** The generator control panel with the ATS function is equipped with power terminals, ATS switch and ATS operation indicator.








Könnér & Söhnen® engines are reliable, high-performance and cost-effective, and conform to European quality standards, including the latest standard of emission EURO 5





# GASOLINE GENERATORS



|                               |   |   |             |  |   |   |
|-------------------------------|---|---|-------------|--|---|---|
| Voltage, V                    | 400   | 230   | 400         | 230  | 230   | 230   |
| Max power, kW                 | 5,5   | 5,5   | 5,5         | 5,5  | 6,5   | 8,0   |
| Nominal power, kW             | 5,0   | 5,0   | 5,0         | 5,0  | 6,0   | 7,5   |
| Frequency, Hz                 | 50  | 50  |             | 50   | 50  | 50  |
| Current, A (max)              | 9,93  | 23,91   | 9,93        | 23,91  | 28,3  | 34,78   |
| Outlets                       | 1x16A (230 V)<br>1x16A (400 V)  | 1x16A (400 V)<br>1x32A (230 V)  |             | 1x16A, 1x32A   | 1x16A, 1x32A  | 1x16A, 1x32A  |
| Fuel tank volume, l           | 25  | 25  |             | 25   | 25  | 25  |
| Working time at 50% load*, h  | 17  | 17  |             | 17   | 15  | 17  |
| LED display                   | voltage, frequency, working hours   |   |             |  |   |   |
| Noise level LPA (7 m)/LWA, dB | 70/95   | 70/95   |             | 70/95  | 71/96   | 71/96   |
| Power output DC, V/A          | 12/8,3  | 12/8,3  |             | 12/8,3   | 12/8,3  | 12/8,3  |
| Engine model                  | KS 390  | KS 390  |             | KS 390   | KS 420  | KS 440  |
| Engine type                   | gasoline powered one-cylinder,<br>four-stroke air-cooled                            |   |             | LPG/gasoline powered one-cylinder,<br>four-stroke air-cooled                         |   | gasoline powered<br>one-cylinder, four-<br>stroke air-cooled                          |
| Engine power, hp/kW           | 13,0/9,56   | 13,0/9,56   |             | 13,0/9,56  | 16,0/11,77  | 18,0/13,24  |
| Crank case volume, cm³        | 1,1   | 1,1   |             | 1,1  | 1,1   | 1,2   |
| Engine cylinder volume, cm³   | 389   | 389   |             | 389  | 420   | 440   |
| Power output controller       | intelligent voltage stabilization system AVR  |   |             |  |   |   |
| Engine start                  | manual/electric/<br>auto  | manual/electric   |             | manual/electric  | manual/electric   | manual/electric   |
| Power factor, cos φ           | 0,8 (400 V)   | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)  | 1,0 (230 V)   | 1,0 (230 V)   |
| Net dimensions (LxWxH), mm    | 680x545x550   | 680x545x550   |             | 680x545x550  | 680x545x550   | 680x545x550   |
| Gross dimensions (LxWxH), mm  | 700x545x590   | 700x545x590   |             | 700x545x590  | 700x545x590   | 700x545x590   |
| Net weight, kg                | 82,3  | 81  |             | 77,2   | 79  | 86,5  |
| Gross weight, kg              | 83,2  | 83  |             | 79,6   | 81  | 88,9  |
| Protection class              | IP23M   |   |             |  |   |   |
| QR code                       |  |  |             |  |  |  |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.



**DUAL FUEL series** LPG/gasoline generators from Könnér & Söhnen®. The generator can run on both gasoline and liquefied gas (propane-butane).



**Built-in ATS.** Built-in ATS system (automatic transfer switch). ATS unit is already built into the generator, installation is as simple as possible. The generator control panel with the ATS function is equipped with power terminals, ATS switch and ATS operation indicator.








KS 10000E-3

KS 10000E ATS

KS 10000E-3 ATS

KS 10000E-1/3

KS 10000E G

|                               |   |   |  |   |   |  |
|-------------------------------|---|---|--|---|---|--|
| Voltage, V                    | 400   | 230   | 400  | 230   | 400   | 230  |
| Max power, kW                 | 8,0   | 8,0   | 8,0  | 8,0   | 8,0   | 8,0  |
| Nominal power, kW             | 7,5   | 7,5   | 7,5  | 7,5   | 7,5   | 7,5  |
| Frequency, Hz                 | 50  | 50  | 50   | 50  |   | 50   |
| Current, A (max)              | 14,45   | 34,78   | 14,45  | 34,78   | 14,45   | 34,78  |
| Outlets                       | 1x16A (230 V)<br>1x16A (400 V)  | 1x16A, 1x32A  | 1x16A (230 V)<br>1x16A (400 V)   | 1x16A (400 V)<br>1x32A (230 V)  |   | 1x16A, 1x32A   |
| Fuel tank volume, l           | 25  | 25  | 25   | 25  |   | 25   |
| Working time at 50% load*, h  | 15  | 15  | 15   | 15  |   | 15   |
| LED display                   | voltage, frequency, working hours   |   |  |   |   |  |
| Noise level LPA (7 m)/LWA, dB | 71/96   | 71/96   | 71/96  | 71/96   |   | 71/96  |
| Power output DC, V/A          | 12/8,3  | 12/8,3  | 12/8,3   | 12/8,3  |   | 12/8,3   |
| Engine model                  | KS 440  | KS 440  | KS 440   | KS 440  |   | KS 440   |
| Engine type                   | gasoline powered one-cylinder,<br>four-stroke air-cooled                            |   |  |   |   | LPG/gasoline powered<br>one-cylinder, four-<br>stroke air-cooled |
| Engine power, hp/kW           | 18,0/13,24  | 18,0/13,24  | 18,0/13,24   | 18,0/13,24  |   | 18,0/13,24   |
| Crank case volume, cm³        | 1,2   | 1,2   | 1,2  | 1,2   |   | 1,2  |
| Engine cylinder volume, cm³   | 440   | 440   | 440  | 440   |   | 440  |
| Power output controller       | intelligent voltage stabilization system AVR  |   |  |   |   |  |
| Engine start                  | manual/electric   | manual/electric/<br>auto  | manual/electric/<br>auto   | manual/electric   |   | manual/electric  |
| Power factor, cos φ           | 0,8 (400 V)   | 1,0 (230 V)   | 0,8 (400 V)  | 1,0 (230 V)   | 0,8 (400 V)   | 1,0 (230 V)  |
| Net dimensions (LxWxH), mm    | 680x545x550   | 680x545x550   | 680x545x550  | 680x545x550   |   | 680x545x550  |
| Gross dimensions (LxWxH), mm  | 700x545x590   | 700x545x590   | 700x545x590  | 700x545x590   |   | 700x545x590  |
| Net weight, kg                | 88,0  | 87,8  | 89,2   | 88  |   | 86,5   |
| Gross weight, kg              | 90,4  | 90,2  | 91,6   | 90  |   | 88,9   |
| Protection class              | IP23M   |   |  |   |   |  |
| QR code                       |  |  |  |  |  |  |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.



**Voltage transfer switch system.** Allows using the generator both in three-phase mode (400V) and in single-phase mode (230V) without loss of power.



Könnér & Söhnen® engines are reliable, high-performance and cost-effective, and conform to European quality standards, including the latest **standard of emission EURO 5**





# GASOLINE GENERATORS



KS 12-1E ATSR







KS 12-1E 1/3 ATSR



KS 15-1E ATSR



KS 15-1E 1/3 ATSR

|  |   |   |             |   |   |             |
|--|---|---|-------------|---|---|-------------|
| Voltage, V                               | 230   | 230   | 400         | 230   | 230   | 400         |
| Max power                                | 9,2 kW  | 8,2 kW  | 11,5 kVA    | 12,5 kW   | 11,5 kW   | 15,6 kVA    |
| Nominal power                            | 9,0 kW  | 8,0 kW  | 11,25 kVA   | 12,0 kW   | 11,0 kW   | 15,0 kVA    |
| Frequency, Hz                            | 50  | 50  |             | 50  | 50  |             |
| Current, A (max)                         | 40  | 35  | 17          | 53  | 48  | 22          |
| Outlets                                  | 1x63A (230 V)<br>1x32A (230 V)<br>1x32A (230 V)                                     | 1x32A (400 V)<br>1x32A (230 V)<br>1x16A (230 V)                                     |             | 1x63A (230 V)<br>1x32A (230 V)<br>1x16A (230 V)                                       | 1x63A (230 V)<br>1x32A (400 V)  |             |
| LED display                              | voltage, frequency, working hours, oil alarm  |   |             |   |   |             |
| Noise level LPA (7 m)/LWA, dB            | 74/97   | 74/97   |             | 73/96   | 73/96   |             |
| Power output DC, V/A                     | +   | +   |             | +   | +   |             |
| Engine model                             | KS 650  | KS 650  |             | KS 780  | KS 780  |             |
| Engine type                              | gasoline powered one-cylinder,<br>four-stroke air-cooled                            |   |             | gasoline powered two-cylinder,<br>four-stroke air-cooled                              |   |             |
| Engine power, hp/kW                      | 18,5/13,6   | 18,5/13,6   |             | 22,0/16,18  | 22,0/16,18  |             |
| Crank case volume, cm³                   | 1,4   | 1,4   |             | 1,5   | 1,5   |             |
| Engine cylinder volume, cm³              | 625   | 625   |             | 750   | 750   |             |
| Power output controller                  | intelligent voltage stabilization system AVR  |   |             |   |   |             |
| Engine start                             | manual/electric   | manual/electric   |             | electric  | electric  |             |
| Power factor, cos φ                      | 1,0 (230 V)   | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)   | 1,0 (230 V)   | 0,8 (400 V) |
| Battery, Ah                              | 21  |   |             | 36  |   |             |
| Ability to connect ATS (8-pin connector) | +   | +   |             | +   | +   |             |
| Net dimensions (LxWxH), mm               | 790x705x680   | 790x705x680   |             | 780x705x680   | 780x705x680   |             |
| Gross dimensions (LxWxH), mm             | 800x715x780   | 800x715x780   |             | 807x715x905   | 807x715x905   |             |
| Net weight, kg                           | 120   | 120   |             | 155   | 155   |             |
| Gross weight, kg                         | 136   | 136   |             | 170   | 170   |             |
| Protection class                         | IP23M   |   |             |   |   |             |
| QR code                                  |  |  |             |  |  |             |



**Automatic transfer switch.** The generator has the ability to connect the ATS system (automatic transfer switch). The ATS input has a 8-pin connector.



**Voltage transfer switch system.** Allows using the generator both in three-phase mode (400V) and in single-phase mode (230V) without almost no loss of power.

## TRANSPORTATION KITS

### KS 3 KIT



**Suitable for all open frame models of gasoline generators: KS 2000, KS 3000 series**

|                  |            |
|------------------|------------|
| Mounting kit     | 1 pc       |
| Wheels           | 2 pcs      |
| Handles          | 2 pcs      |
| Support legs     | 2 pcs      |
| Net/Gross weight | 5,0/5,6 kg |



### KS 7 KIT



**Suitable for all open frame models of gasoline generators: KS 5000, KS 7000 series (steel frame Ø28 cm).**

|                  |              |
|------------------|--------------|
| Mounting kit     | 1 pc         |
| Wheels           | 2 pcs        |
| Handles          | 2 pcs        |
| Support legs     | 2 pcs        |
| Net/Gross weight | 5,12/5,66 kg |



### KS 10 KIT




**Suitable for all open frame models of gasoline generators KS 9000, KS 10000 series and diesel generators KS 6100, KS 8100, KS 9100 series (steel frame Ø32 cm).**

|                  |              |
|------------------|--------------|
| Mounting kit     | 1 pc         |
| Wheels           | 2 pcs        |
| Handles          | 2 pcs        |
| Support legs     | 2 pcs        |
| Net/Gross weight | 5,24/5,78 kg |





# DIESEL GENERATORS

 **5,0 – 8,0 kW**



Könnert & Söhne® diesel generators of the "HEAVY DUTY" series are models of generators for a backup power source that have a number of advantages compared to gasoline models, namely:

- increased motor resource - so they have a longer service life.
- can work more hours without a break
- lower fuel consumption
- have a reinforced frame structure and high-strength components.

The updated range includes one- and two-cylinder models with air or water cooling with a capacity of 5,0 kW to 8,0 kW.



**Könnér & Söhnen® diesel generators of the "HEAVY DUTY" series** have an increased motor resource - so they have a longer service life, can work for more hours without a break.

The new range includes interesting models equipped with a unique VTS phase switching system that allows one generator to be used as a single- and three-phase generator with almost no loss of power. Moreover, diesel generators are equipped with a ATS output for connecting an automatic transfer switch unit. All HEAVY DUTY series generators are equipped with a preheater that will help easily start the generator in winter time. The generators are also equipped with heavyduty 30 Ah batteries.

#### Generator power



**5.0 – 7.5 kW**

#### Voltage



**230V/400V**

#### Engine start



**MANUAL/ELECTRIC**

#### Engine power



**12 – 18 HP**

✓ Maximum degree of equipment and user protection: automatic circuit breakers in case of overload or short circuit, generator grounding screw and connectors grounding in each outlet, automatic engine stop at low oil level.

✓ Control of all key indicators of working condition: display of frequency, voltage, low oil level indicator, fuel level sensor.



**VTS phase switching system**  
ensures almost equal power for single and three-phase consumers

LED-display: voltage, frequency, working hours

Pre-start heating procedure for an easy start (in cold season)

6-pin ATS input



Powerful and reliable engine Könnér & Söhnen®, engine life up to 3000 hours

**DIESEL GENERATORS**



**3D REVIEW**



**REVIEW VIDEO  
OF GENERATOR  
IN WORK**







# DIESEL GENERATORS



## PRE-START HEATING

HEAVY DUTY series diesel generators are equipped with a preheater that allows to effortlessly start the generator in winter.



## ATS INPUT

The generator is suitable for connecting the ATS (automatic transfer switch) system. The ATS input features a 6-pin connector. The ATS (Automatic transfer switch) unit automatically starts the generator and transfers load to it when the main power supply is disconnected.



## SYSTEM VTS

The unique innovative VTS system (voltage Transfer Switch) which allows you to use one generator both for single-phase (230 V) and three-phase appliances (400 V). Each mode has its own circuit breaker.



## LED DISPLAY

Modern multifunction LED-display shows frequency, voltage and operating hours of the generator. Displayed information makes it easy to determine the generated voltage and maintain generator in time.

## KS 6100HDE



|                             |                              |
|-----------------------------|------------------------------|
| Max power/Nom. power, 230 V | 5,5 kW/5,0 kW                |
| Voltage                     | 230 V                        |
| Engine start                | manual/electric              |
| Outlets                     | 1x32A (230 V), 2x16A (230 V) |
| Preheater                   | +                            |
| Battery                     | 30 Ah                        |
| Net dimensions (LxWxH)      | 730x495x630 mm               |
| Net weight                  | 107 kg                       |



## KS 8100HDE



|                             |                              |
|-----------------------------|------------------------------|
| Max power/Nom. power, 230 V | 6,5 kW/6,0 kW                |
| Voltage                     | 230 V                        |
| Engine start                | manual/electric              |
| Outlets                     | 1x32A (230 V), 2x16A (230 V) |
| Preheater                   | +                            |
| Battery                     | 30 Ah                        |
| Net dimensions (LxWxH)      | 730x495x630 mm               |
| Net weight                  | 117 kg                       |



## KS 8100HDE-1/3 ATSR



|                             |                              |
|-----------------------------|------------------------------|
| Max power/Nom. power, 230 V | 5,5/5,0 kW                   |
| Max power/Nom. power, 400 V | 6,5/6,0 kW                   |
| Voltage                     | 230 V/400V                   |
| Engine start                | manual/electric              |
| Outlets                     | 1x32A (230 V), 2x16A (400 V) |
| Preheater                   | +                            |
| Battery                     | 30 Ah                        |
| Net dimensions (LxWxH)      | 730x495x630 mm               |
| Net weight                  | 117 kg                       |



## KS 9100HDE-1/3 ATSR



|                             |                              |
|-----------------------------|------------------------------|
| Max power/Nom. power, 230 V | 6,5/6,0 kW                   |
| Max power/Nom. power, 400 V | 7,5/7,0 kW                   |
| Voltage                     | 230 V/400V                   |
| Engine start                | manual/electric              |
| Outlets                     | 1x32A (230 V), 2x16A (400 V) |
| Preheater                   | +                            |
| Battery                     | 30 Ah                        |
| Net dimensions (LxWxH)      | 730x495x630 mm               |
| Net weight                  | 122 kg                       |





# DIESEL GENERATORS

Exclusive models of **HEAVY DUTY Silent Diesel Generator** series - diesel generators in a soundproof anti-vandal housing. These models have many advantages compared to ordinary diesel generators. Thanks to their robust housing, the generators have reduced noise level, additional protection from all weather conditions, dust and dirt.

Like other generators of HEAVY DUTY series, these models feature increased service life (up to 3000 operating hours), pre-start heating, which is especially necessary for startup during the cold season. In addition, generators are suitable for connecting the ATS unit (Automatic Transfer Switch). Models which have 1/3 in model name are equipped with a unique VTS phase switching system. We are sure that our generators will become your reliable assistants.

## Generator power



5,0 – 8,0 kW

## Voltage



230V/400V

## Soundproof housing



Lpa (7m) – 66 dB

## Preheater



**EASY START  
IN COLD SEASON**



Soundproof anti-vandal housing

Pre-start heating procedure for an easy start (in cold season)

6-pin ATS input

Circuit breaker.  
Overload and short  
circuit protection



VTS phase switching system  
ensures almost equal power for  
single and three-phase consumers

**SUPER SILENT DIESEL GENERATORS**  
(models KS 9300DE 1/3 ATSR, KS 11-2DE ATSR)  
Minimum noise level of Lpa (7m) - 66 dB





### HOUSING

All-season soundproof anti-vandal housing provides effective protection for the generator and extends its service life. The housing is equipped with handles and casters for easy handling. Models of the Super Silent series with a minimal noise level, provide the most comfortable use.



### USER-FRIENDLY ERGONOMIC CONTROL PANEL

The ergonomic generator control panel allows easy operation thanks to the convenient location of all functions: modern LED-display (hour meter, frequency, voltage), electric start, overload circuit breaker, low oil level sensor, outlets, grounding connector, etc.



### VTS SYSTEM

Universal generators 2 in 1 have a unique VTS (Voltage Transfer Switch) phase switching system, which allows using a single generator both in single-phase (230V) and in three-phase mode (400V) with almost no loss of power. Each mode has its own circuit breakers. There is no need to use two separate generators.



### SUITABLE FOR CONNECTING ATS

The generator is suitable for connecting the ATS (Automatic transfer switch) unit. The ATS input features a 6-pin connector. The ATS (Automatic transfer switch) unit automatically starts the generator and transfers load to it when the main power supply is disconnected.





## KS 8200HDES-1/3 ATSR


|                             |  |
|-----------------------------|--|
| Max power/Nom. power, 230 V | <b>5,5/5,0 kW</b>                      |
| Max power/Nom. power, 400 V | <b>6,5/6,0 kW</b>                      |
| Voltage                     | <b>230 V/400 V</b>                     |
| Engine start                | <b>electric</b>                        |
| Outlets                     | <b>1x32A (230 V)<br/>1x16A (400 V)</b> |
| Preheater                   | <b>+</b>                               |
| Battery                     | <b>30 Ah</b>                           |
| Net dimensions (LxWxH)      | <b>900x545x905 mm</b>                  |
| Net weight                  | <b>163 kg</b>                          |



## KS 9200HDES-1/3 ATSR

|                             |  |
|-----------------------------|--|
| Max power/Nom. power, 230 V | <b>6,5/6,0 kW</b>                      |
| Max power/Nom. power, 400 V | <b>7,5/7,0 kW</b>                      |
| Voltage                     | <b>230 V/400 V</b>                     |
| Engine start                | <b>electric</b>                        |
| Outlets                     | <b>1x32A (230 V)<br/>1x16A (400 V)</b> |
| Preheater                   | <b>+</b>                               |
| Battery                     | <b>30 Ah</b>                           |
| Net dimensions (LxWxH)      | <b>900x545x905 mm</b>                  |
| Net weight                  | <b>168 kg</b>                          |



 Engines of diesel generators meet the latest Euro 5 emission standard



## SUPER SILENT DIESEL GENERATORS

Models of the KS 9300 and KS 11-2 series are equipped with a specially designed soundproof, anti-vandal casing of increased hardness, which ensures the most comfortable use in heavy duty conditions with a **minimum noise level** of L<sub>pa</sub> (7m) 66 dB.



### Soundproof housing:

- ✓ Noise-absorbing material for ensuring quieter operation of generator
- ✓ Protection of the engine from accidental entry of foreign objects (branches, leaves, construction debris, etc.)
- ✓ Electrostatic anti-corrosion ANTI-SCRATCH coating extends the operation life of the unit
- ✓ Equipped with locks to protect from unauthorized intervention
- ✓ Equipped with handles and transport wheels for convenient movement

### KS 9300DE-1/3 ATSR



|                             |  |
|-----------------------------|--|
| Max power/Nom. power, 230 V | <b>6,5/6,0 kW</b>                      |
| Max power/Nom. power, 400 V | <b>7,5/7,0 kW</b>                      |
| Voltage                     | <b>230 V/400 V</b>                     |
| Engine start                | <b>electric</b>                        |
| Outlets                     | <b>1x32A (230 V)<br/>1x16A (400 V)</b> |
| Preheater                   | <b>+</b>                               |
| Battery                     | <b>30 Ah</b>                           |
| Net dimensions (LxWxH)      | <b>1080x550x800 mm</b>                 |
| Net weight                  | <b>168 kg</b>                          |



### KS 11-2DE ATSR



|                        |  |
|------------------------|--|
| Max power 230 V        | <b>8,0 kW</b>                          |
| Nominal power 230 V    | <b>7,5 kW</b>                          |
| Voltage                | <b>230 V</b>                           |
| Engine start           | <b>electric</b>                        |
| Outlets                | <b>1x32A (230 V)<br/>2x16A (230 V)</b> |
| Preheater              | <b>+</b>                               |
| Battery                | <b>30 Ah</b>                           |
| Net dimensions (LxWxH) | <b>1100x600x750 mm</b>                 |
| Net weight             | <b>216 kg</b>                          |



Engines of diesel generators meet the latest Euro 5 emission standard





KS 6100HDE







KS 8100HDE



KS 8100HDE-1/3 ATSR



KS 9100HDE-1/3 ATSR

|                              |   |   |  |             |   |             |
|------------------------------|---|---|--|-------------|---|-------------|
| Voltage, V                   | 230   | 230   | 230  | 400         | 230   | 400         |
| Max power, kW                | 5,5   | 6,5   | 5,5  | 6,5         | 6,5   | 7,5         |
| Nominal power, kW            | 5,0   | 6,0   | 5,0  | 6,0         | 6,0   | 7,0         |
| Frequency, Hz                | 50  | 50  | 50   |             | 50  |             |
| Current, A (max)             | 23,91   | 28,26   | 23,04  | 11,74       | 27,83   | 13,54       |
| Outlets                      | 1x16A<br>1x32A  | 1x16A<br>1x32A  | 1 x 16A (400 V)<br>1 x 32A (230 V)   |             | 1 x 16A (400 V)<br>1 x 32A (230 V)  |             |
| Fuel tank volume, l          | 11  | 11  | 11   |             | 11  |             |
| Working time at 50% load*, h | 8,5   | 6,9   | 6,9  |             | 6,1   |             |
| LED display                  | voltage, frequency, working hours   |   |  |             |   |             |
| Noise level Lpa (7m)/Lwa, dB | 71/96   | 71/96   | 71/96  |             | 71/96   |             |
| Power output DC, V/A         | 12/8,3  | 12/8,3  | 12/8,3   |             | 12/8,3  |             |
| Engine model                 | KS 440HD<br>KS 440HD-V  | KS 480HD<br>KS 480HD-V  | KS 480HD<br>KS 480HD-V   |             | KS 520HD<br>KS 520HD-V  |             |
| Engine type                  | diesel powered one-cylinder, four-stroke air-cooled                                 |   |  |             |   |             |
| Engine power, hp/kW          | 12,0/8,83   | 14,0/10,3   | 14,0/10,3  |             | 18,0/13,24  |             |
| Crank case volume, l         | 1,65  | 1,65  | 1,65   |             | 1,65  |             |
| Engine cylinder volume, cm³  | 418   | 456   | 456  |             | 498   |             |
| Power output controller      | intelligent voltage stabilization system AVR  |   |  |             |   |             |
| Engine start                 | manual/electric   | manual/electric   | manual/electric  |             | manual/electric   |             |
| Power factor, cos φ          | 1,0 (230 V)   | 1,0 (230 V)   | 1,0 (230 V)  | 0,8 (400 V) | 1,0 (230 V)   | 0,8 (400 V) |
| Diameter of the frame        | 32 mm, round  |   |  |             |   |             |
| Battery, Ah                  | 30  | 30  | 30   |             | 30  |             |
| Ability to connect ATS       | -   | -   | +  |             | +   |             |
| Preheater                    | +   | +   | +  |             | +   |             |
| Net dimensions (LxWxH), mm   | 730x495x630   | 730x495x630   | 730x495x630  |             | 730x495x630   |             |
| Gross dimensions (LxWxH), mm | 750x550x670   | 750x550x670   | 750x550x670  |             | 750x550x670   |             |
| Net weight, kg               | 107   | 117   | 117  |             | 122   |             |
| Gross weight, kg             | 115   | 125   | 125  |             | 130   |             |
| Protection class             | IP23M   |   |  |             |   |             |
| QR code                      |  |  |  |             |  |             |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.







Könnér & Söhnen® engines are reliable, high-performance and cost-effective, and conform to European quality standards, including the latest standard of emission EURO 5.



**Automatic transfer switch.** The generator has the ability to connect the ATS system (automatic transfer switch). The ATS input has a 6-pin connector.



KS 8200HDES-1/3 ATSR KS 9200HDES-1/3 ATSR KS 9300DE-1/3 ATSR KS 11-2DE ATSR

|                              |   |       |   |             |   |             |   |
|------------------------------|---|-------|---|-------------|---|-------------|---|
| Voltage, V                   | 230   | 400   | 230   | 400         | 230   | 400         | 230   |
| Max power, kW                | 5,5   | 6,5   | 6,5   | 7,5         | 6,5   | 7,5         | 8,0   |
| Nominal power, kW            | 5,0   | 6,0   | 6,0   | 7,0         | 6,0   | 7,0         | 7,5   |
| Frequency, Hz                | 50  |       | 50  |             | 50  |             | 50  |
| Current, A (max)             | 23,91   | 11.74 | 28,26   | 13,54       | 28,26   | 13,54       | 34,78   |
| Outlets                      | 1 x 16A (400 V)<br>1 x 32A (230 V)  |       | 1 x 16A (400 V)<br>1 x 32A (230 V)  |             | 1 x 32A (230 V)<br>1 x 16A (400 V)  |             | 1x32A, 2x16A  |
| Fuel tank volume, l          | 20  |       | 20  |             | 20  |             | 20  |
| Working time at 50% load*, h | 12,5  |       | 11,1  |             | 11,1  |             | 13,2  |
| LED display                  | voltage, frequency, working hours   |       |   |             |   |             |   |
| Noise level Lpa (7m)/Lwa, dB | 69/94   |       | 69/94   |             | 66/91   |             | 64/89   |
| Power output DC, V/A         | 12/8,3  |       | 12/8,3  |             | 12/8,3  |             | 12/8,3  |
| Engine model                 | KS 480HD-V  |       | KS 520HD<br>KS 520HD-V  |             | KS 520HD<br>KS 520HD-V  |             | KS 690HD  |
| Engine type                  | diesel powered one-cylinder, four-stroke air-cooled                                 |       |   |             |   |             |   |
| Engine power, hp/kW          | 14,0/10,3   |       | 18,0/13,24  |             | 18,0/13,24  |             | 15,0/11,03  |
| Crank case volume, l         | 1,65  |       | 1,65  |             | 1,65  |             | 1,65  |
| Engine cylinder volume, cm³  | 456   |       | 498   |             | 498   |             | 668   |
| Power output controller      | intelligent voltage stabilization system AVR  |       |   |             |   |             |   |
| Engine start                 | electric  |       | electric  |             | electric  |             | electric  |
| Power factor, cos φ          | 1,0 (230 V)   |       | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)   |
| Housing                      | soundproof housing  |       |   |             |   |             |   |
| Battery, Ah                  | 30  |       | 30  |             | 30  |             | 30  |
| Ability to connect ATS       | +   |       | +   |             | +   |             | +   |
| Preheater                    | +   |       | +   |             | +   |             | +   |
| Net dimensions (LxWxH), mm   | 900x545x905   |       | 900x545x905   |             | 920x580x860   |             | 1100x600x750  |
| Gross dimensions (LxWxH), mm | 960x550x960   |       | 960x550x960   |             | 940x600x880   |             | 1150x650x850  |
| Net weight, kg               | 163   |       | 168   |             | 168   |             | 216   |
| Gross weight, kg             | 173   |       | 178   |             | 180   |             | 230   |
| Protection class             | IP23M   |       |   |             |   |             |   |
| QR code                      |  |       |  |             |  |             |  |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.

**VTS** **Voltage transfer switch system.** Allows using the generator both in three-phase mode (400V) and in single-phase mode (230V) without almost no loss of power.



**SUPER SILENT.** Models of the Super Silent series with a minimal noise level, provide the most comfortable use.



# FACTS ABOUT K&S GENERATORS

## ✓ THE QUALITY IS UNDER CONTROL

We constantly monitor the production process of equipment, even for models, which quality is proved by time. From each order we take about 25% of each Könnér & Söhnen® diesel generator article and additionally test them in our own service center in Europe. In this way, we check the proper quality of the batch before it is accepted for sale. All Könnér & Söhnen® equipment has European quality certificates, including the modern EURO 5 standard.

## ✓ FULL POWER

The power range of Könnér & Söhnen® diesel generators allows you to choose the ideal model for your home or small business. Universal models are suitable for single-phase and three-phase devices, equipped with protected power sockets for convenient external connecting of consumers with the possibility of receiving the full power produced by the device. The delivery set includes power plugs corresponding to each outlet.

## ✓ START-UP ASSISTANT

We offer customers a whole package of materials-assistants for commissioning and first start-up, namely a detailed photo manual with a step-by-step process of preparation and start-up generator and video materials that carefully show the entire process of starting both manual and electric start. In addition, the delivery set includes technical instructions for installation and assembly, and a short text hint for starting is attached to the generator, if necessary to remind the sequence of actions.



## AUTOMATIC TRANSFER SWITCH

The **ATS** (automatic transfer switch) **unit** automatically starts the generator and transfers the load to it when the main power source is turned off and automatically stops the generator when the central power supply is restored.

Diesel generators with electric starters are equipped with a connector for an automatic transfer switch unit (ATS input). The ATS unit has a controller that allows you to program the time before the generator automatically starts in the case of a power outage, the generator warm-up time before connecting the load and signals an error. ATS unit has an emergency stop button. It can operate both in automatic and in manual mode.

### 6-pin input for ATS

#### KS ATS 1/40HD

|                        |                       |
|------------------------|-----------------------|
| Power                  | <b>9,2 kW</b>         |
| Voltage                | <b>230 V</b>          |
| Current (Max) 230 V    | <b>40 A</b>           |
| Net dimensions (LxWxH) | <b>345x250x180 mm</b> |
| Net/Gross weight       | <b>6,7/7,1 kg</b>     |



### 6-pin input for ATS

#### KS ATS 4/63HD

|                        |                       |
|------------------------|-----------------------|
| Power 230 V            | <b>14,4 (28,8) kW</b> |
| Power 400 V            | <b>34,8 kW</b>        |
| Voltage                | <b>230 V/400 V</b>    |
| Current (Max) 230 V    | <b>63 (120) A</b>     |
| Current (Max) 400 V    | <b>63 A</b>           |
| Net dimensions (LxWxH) | <b>400x320x190 mm</b> |
| Net/Gross weight       | <b>8,4/8,8 kg</b>     |



### PROGRAMMABLE LOGIC CONTROLLER OF THE ATS UNIT:

- Automatic/manual operation
- Programming of engine starting time after power outage
- Programming of engine warm-up time before connecting the appliances
- Setting of starter operation time
- Battery charging when the generator is off

## TRANSPORTATION KIT

#### KS 6-9 KIT

**Suitable for all modifications of diesel generators with open frame: KS 6000, KS 8000, KS 9000**

|                  |                   |
|------------------|-------------------|
| Wheels           | <b>4 pcs</b>      |
| Net/Gross weight | <b>3,0/3,2 kg</b> |







# INVERTER GENERATORS



1,8 – 8,5 kW



Updated wide model range of inverter generators Könnér & Söhnen® with extended functionality and power range from 1.8 to 8.5 kW includes dual-fuel models (LPG/gasoline), models with the possibility of connecting ATS unit (automatic transfer switch), models with a minimum noise level Lpa (7m) from 62 dB.

Built-in electronic unit with microprocessor control monitors the operation of the generator and provides the most stable 50 Hz frequency and a voltage of 230 V, which is best suitable for sensitive and high precision electronics.



**Inverter gasoline powered generators** are a user-friendly portable source of energy. The range of inverter generators features models with a power range from 1,8 to 8,5 kW. Double conversion of electric energy provides the pure sine wave and frequency of 50 Hz, which ensures reliable operation of sensitive and high-precision electronics: computers, electronic measuring instruments, medical devices, heating boilers, etc.

All generators are based on robust Könnér & Söhnen® gasoline engines manufactured under license of Dimax International GmbH (Germany), which have passed many-hours-long and multiple-level quality tests and found compliant with all European quality standards, including the latest EURO 5 emission standard. Engines of inverter generators from Könnér & Söhnen® have an Economy mode, which allows using the generator at low speeds and reduces fuel consumption by up to 50%. The wide updated range will help to pick up a model even for the most demanding consumer. Parallel connection of two generators ensures total output of nominal power of two generators.

**Generator power**



**1,8 kW–8,5 kW**

**Voltage**



**230 V**

**Engine start**



**MANUAL/ELECTRIC**

**Engine power**



**2,5–16 HP**

Built-in ATS system (Automatic Transfer Switch)

Economy mode switch (ECON)

Oil level indicator, overload indicator, voltage indicator, ATS operation indicator, ATS operation errors

**PURE SINE  
WAVE**



Exclusive design. Soundproof housing with minimum noise level Lpa (7m) 64 dB

Engine switch (multifunction engine switch for model KS 4000iEG S)

LED display (multifunctional LED display for model KS 4000iE S)

Powerful and reliable EURO 5 engine of Könnér & Söhnen®



Possibility for parallel connection (additional device for double power receiving)



**3D REVIEW**



**REVIEW VIDEO  
OF GENERATOR  
IN WORK**



INVERTER GENERATORS

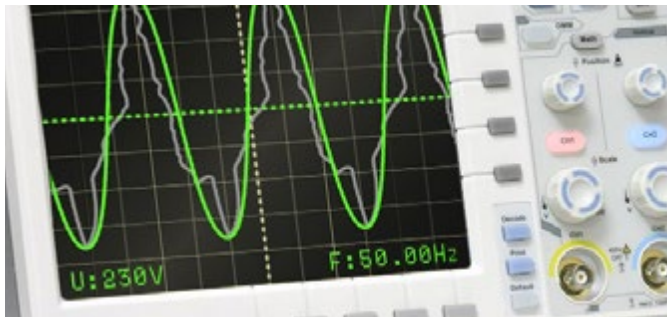




# INVERTER GENERATORS



Inverter generators in a sound-proof housing are characterized by quiet operation with a minimum noise level of  $L_{pa}(7m)$  62 dB. They do not cause discomfort neither to the owner nor to others, so they can be safely used for active recreation in nature, as well as for out-of-town trade or concert events, etc.



## PURE SINE WAVE

The integrated microprocessor-controlled electronic unit controls the generator operation and provides the most stable frequency of 50 Hz and voltage of 230 V. This makes the generator ideally suited for sensitive and high-precision electronics, electronic measuring instruments, medical devices, heating boilers, etc.



## ECONOMY MODE

Engines of inverter generators from Könnér & Söhnen® have an ECONOMY MODE. This mode allows using the inverter generator at low speeds and reduces fuel consumption by up to 50%. The air choke control system adjusts the engine speed depending on the load.



## 3-IN-1 EASY ENGINE START SYSTEM

3-in-1 universal engine switch for the easiest and most convenient start of the generator combines the functions of a fuel valve, an air choke and an electric engine start.



## HOUSING

Inverter generators from Könnér & Söhnen® have two types of execution: soundproof housing with a minimum noise level and a more economical execution with an open frame.

## KS 2000i S



|                        |                |
|------------------------|----------------|
| Max/Nominal power      | 2,0 kW/1,8 kW  |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 1x16A          |
| Net dimensions (LxWxH) | 480x280x460 mm |
| Net weight             | 19 kg          |



## KS 2100i S



|                        |                |
|------------------------|----------------|
| Max/Nominal power      | 2,0 kW/1,8 kW  |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 1x16A          |
| Net dimensions (LxWxH) | 480x290x430 mm |
| Net weight             | 18,5 kg        |



## KS 3100i S



|                        |                |
|------------------------|----------------|
| Max/Nominal power      | 3,1 kW/2,8 kW  |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 1x16A          |
| Net dimensions (LxWxH) | 480x290x430 mm |
| Net weight             | 21,5 kg        |



## KS 3300i



|                        |                |
|------------------------|----------------|
| Max/Nominal power      | 3,3 kW/3,0 kW  |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 2x16A          |
| Net dimensions (LxWxH) | 435x375x455 mm |
| Net weight             | 25,5 kg        |



\*For models KS 2100i S, 3100i S and 5500iES ATSR cables for parallel connection included.

## GENERATOR PARALLEL CONNECTION UNIT

**KS PU1 generator parallel connection box** from Könnér & Söhnen® allows to increase the total output power of generators by connecting two inverter generators together.

## KS PU1

|                 |              |
|-----------------|--------------|
| Voltage         | 230 V        |
| Sockets         | 1x16A, 1x32A |
| Circuit breaker | +            |
| Maximum power   | 7 kW         |
| Cable length    | 2x80 cm      |
| Cable           | AWG 2,08 mm² |
| Net weight      | 1,37 kg      |







Könnert & Söhne® inverter generators are the best solution for the reliable operation of modern sensitive equipment.

## ABILITY TO CONNECT ATS

Inverter generators from Könnert & Söhne® with the possibility of connecting the ATS system (Automatic Transfer Switch). The ATS is purposed for automatic start of the generator set in the event of interruption or failure of the main power source, as well as for stopping the generator after power supply has been restored.



### KS 4000iE S

|                        |                        |
|------------------------|------------------------|
| Max/Nominal power      | <b>4,0 kW/3,5 kW</b>   |
| Voltage                | <b>230 V</b>           |
| Engine start           | <b>manual/electric</b> |
| ATS input              | <b>+</b>               |
| Outlets                | <b>2x16A</b>           |
| Net dimensions (LxWxH) | <b>620x440x510 mm</b>  |
| Net weight             | <b>40 kg</b>           |



### KS 4100iE

|                        |                        |
|------------------------|------------------------|
| Max/Nominal power      | <b>4,0 kW/3,6 kW</b>   |
| Voltage                | <b>230 V</b>           |
| Engine start           | <b>manual/electric</b> |
| ATS input              | <b>+</b>               |
| Outlets                | <b>2x16A</b>           |
| Net dimensions (LxWxH) | <b>530x410x430 mm</b>  |
| Net weight             | <b>36,7 kg</b>         |



## KS 5500iES ATSR

|                        |                 |
|------------------------|-----------------|
| Max/Nominal power      | 5,5 kW/5,0 kW   |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| ATS input              | +               |
| Outlets                | 1x16A, 1x32A    |
| Net dimensions (LxWxH) | 610x470x535 mm  |
| Net weight             | 52 kg           |



## KS 6000iE S

|                        |                |
|------------------------|----------------|
| Max/Nominal power      | 5,5 kW/5,0 kW  |
| Voltage                | 230 V          |
| Engine start           | manual         |
| ATS input              | +              |
| Outlets                | 1x16A, 1x32A   |
| Net dimensions (LxWxH) | 590x390x547 mm |
| Net weight             | 39,5 kg        |



## KS 8100iE ATSR

|                        |                |
|------------------------|----------------|
| Max/Nominal power      | 8,5 kW/8,0 kW  |
| Voltage                | 230 V          |
| Engine start           | electric       |
| ATS input              | +              |
| Outlets                | 1x16A, 1x32A   |
| Net dimensions (LxWxH) | 600x510x560 mm |
| Net weight             | 68 kg          |



\*For models KS 2100i S, 3100i S and 5500iES ATSR cables for parallel connection included.

## AUTOMATIC TRANSFER SWITCH

The KS ATS 4/25 Gasoline ATS (Automatic Transfer Switch) unit from the German brand "Könnér & Söhnen" automatically starts the generator and transfers load to it when the main power source is turned off and automatically stops the generator when the central power supply is restored.

### 8-pin input for ATS

### 7-pin input for ATS

|                        | KS ATS 4/25 Gasoline | KS ATS 4/25 Inverter |
|------------------------|----------------------|----------------------|
| Power 230 V            | 5,75 (11,5) kW       | 5,75 (11,5) kW       |
| Power 400 V            | 13 kW                | 13 kW                |
| Voltage                | 230 V/400 V          | 230 V/400 V          |
| Current (Max) 230V     | 25A (50A)            | 25A (50A)            |
| Current (Max) 400V     | 25A (50A)            | 25 A                 |
| Net dimensions (LxWxH) | 320x250x140 mm       | 320x250x140 mm       |
| Net weight             | 6,0 kg               | 4,9 kg               |
| Gross weight           | 6,5 kg               | 5.75 kg              |

Model KS ATS 4/25 Gasoline is compatible with inverter generators KS 4000iE S, KS 4100iE and KS 8100iE ATSR.  
Model KS ATS 4/25 Inverter is compatible only with inverter generator KS 5500iES ATSR.





## BUILT-IN ATS SYSTEM (AUTOMATIC TRANSFER SWITCH)

A unique novelty! Inverter generators Könnér & Söhnen® with **built-in ATS system** (automatic transfer switch).

This system allows generator to monitor central power availability and to automatically switch itself on when the electricity is turned off and then automatically switch off when the power is available again. The function becomes irreplaceable and extremely convenient in buildings with severe temperature or light conditions in the absence of personnel control.

These generators do not require any additional sophisticated equipment to use ATS system. ATS unit is already built into the generator, installation is as simple as possible and the cost of these models is highly affordable.

### KS 4000iE S ATS



|                        |                             |
|------------------------|-----------------------------|
| Max/Nominal power      | <b>4,0 kW/3,5 kW</b>        |
| Voltage                | <b>230 V</b>                |
| Engine start           | <b>manual/electric/auto</b> |
| ATS                    | <b>built-in ATS</b>         |
| Outlets                | <b>2x16A</b>                |
| Net dimensions (LxWxH) | <b>620x440x510 mm</b>       |
| Net weight             | <b>40 kg</b>                |



### KS 6000iE S ATS



|                        |                             |
|------------------------|-----------------------------|
| Max/Nominal power      | <b>5,5 kW/5,0 kW</b>        |
| Voltage                | <b>230 V</b>                |
| Engine start           | <b>manual/electric/auto</b> |
| ATS                    | <b>built-in ATS</b>         |
| Outlets                | <b>1x32A</b>                |
| Net dimensions (LxWxH) | <b>590x390x547 mm</b>       |
| Net weight             | <b>40 kg</b>                |



## BUILT-IN ATS SYSTEM

Built-in ATS (automatic transfer switch) system - the generator is equipped with an automatic transfer switch function. The built-in ATS unit allows the generator to monitor the incoming mains supply, automatically starts the generator when the mains supply is disconnected and then automatically stops the generator when the mains supply is restored with no user intervention.

## THE POSSIBILITY OF AUTOMATIC OPERATION WITHOUT THE NEED FOR PERMANENT INSTALLATION!

The KS 4000iES ATS and KS 6000iES ATS inverter generators from Könnér & Söhnen® are equipped with internal AVR modules, providing a wide range of, sometimes unique, solutions for backup power. They come in multiple configurations and can be used to power individual electrical devices as well as provide electricity for entire structures such as homes, offices, shops, and more.

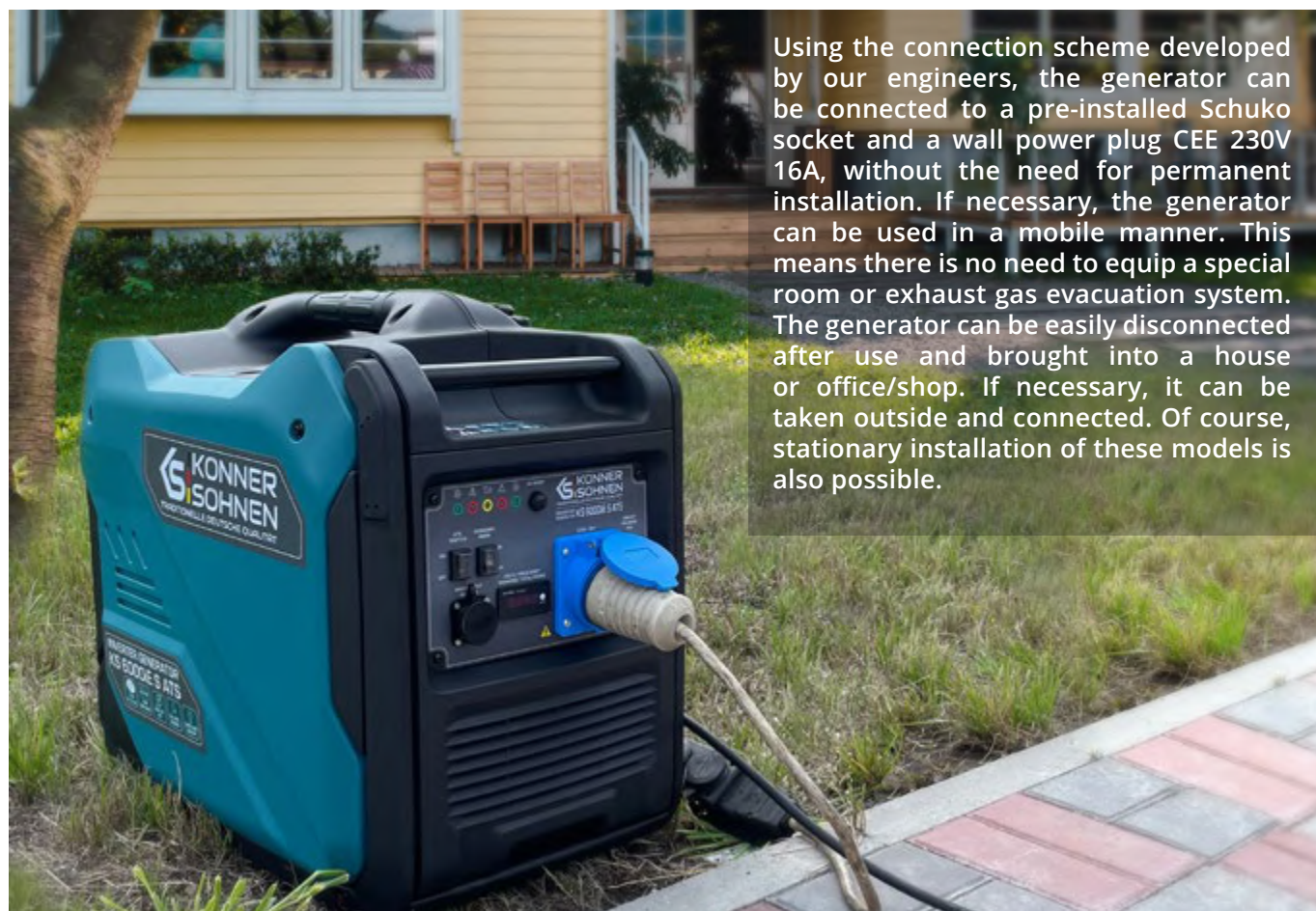
These exclusive models of inverter generators from Könnér & Söhnen® have the capability of automatic operation without the need for a permanent installation.

Version 3 additionally features the capability of external control for starting the generator through the presence of „dry” contacts. This function expands the scope of application for these models and is suitable for use in systems with solar stations (control of programmed contacts of a solar inverter). In this mode, the generator has zero energy consumption in standby.



### FEATURES OF THE KS 6000iES ATS - VERSION 3 MODEL

- ✓ The ability to externally control the generator startup is provided through the presence of “dry” contacts.
- ✓ Zero energy consumption in standby mode with external launch.
- ✓ Automatic startup without the need for permanent installation.



Using the connection scheme developed by our engineers, the generator can be connected to a pre-installed Schuko socket and a wall power plug CEE 230V 16A, without the need for permanent installation. If necessary, the generator can be used in a mobile manner. This means there is no need to equip a special room or exhaust gas evacuation system. The generator can be easily disconnected after use and brought into a house or office/shop. If necessary, it can be taken outside and connected. Of course, stationary installation of these models is also possible.



# LPG/GASOLINE INVERTER GENERATORS

DUAL FUEL series LPG/gasoline generators from Könnér & Söhnen® can run on both gasoline and liquefied gas (propane-butane). The package includes everything you need to use LPG as fuel.



DUAL FUEL generators from Könnér & Söhnen® are equipped with a hose with a reducer (DIN 477 standard) for connecting to a gas cylinder. The reducer ensures the reliability of the gas connection.

All models are based on robust engines, which meet all European quality standards, including EURO 5. Engines of K&S inverter generators have an Economy mode, which allows using the generator at low speeds and reduces fuel consumption by up to 50%. Alternator with copper winding and high-performance K&S engine guarantee trouble-free and long-term operation and meet all European quality standards. The LED display makes it possible to monitor the operation of the generator and to carry out its maintenance in time.

## Generator power



1,8 kW–8,5 kW

## Voltage



230V

## Engine start

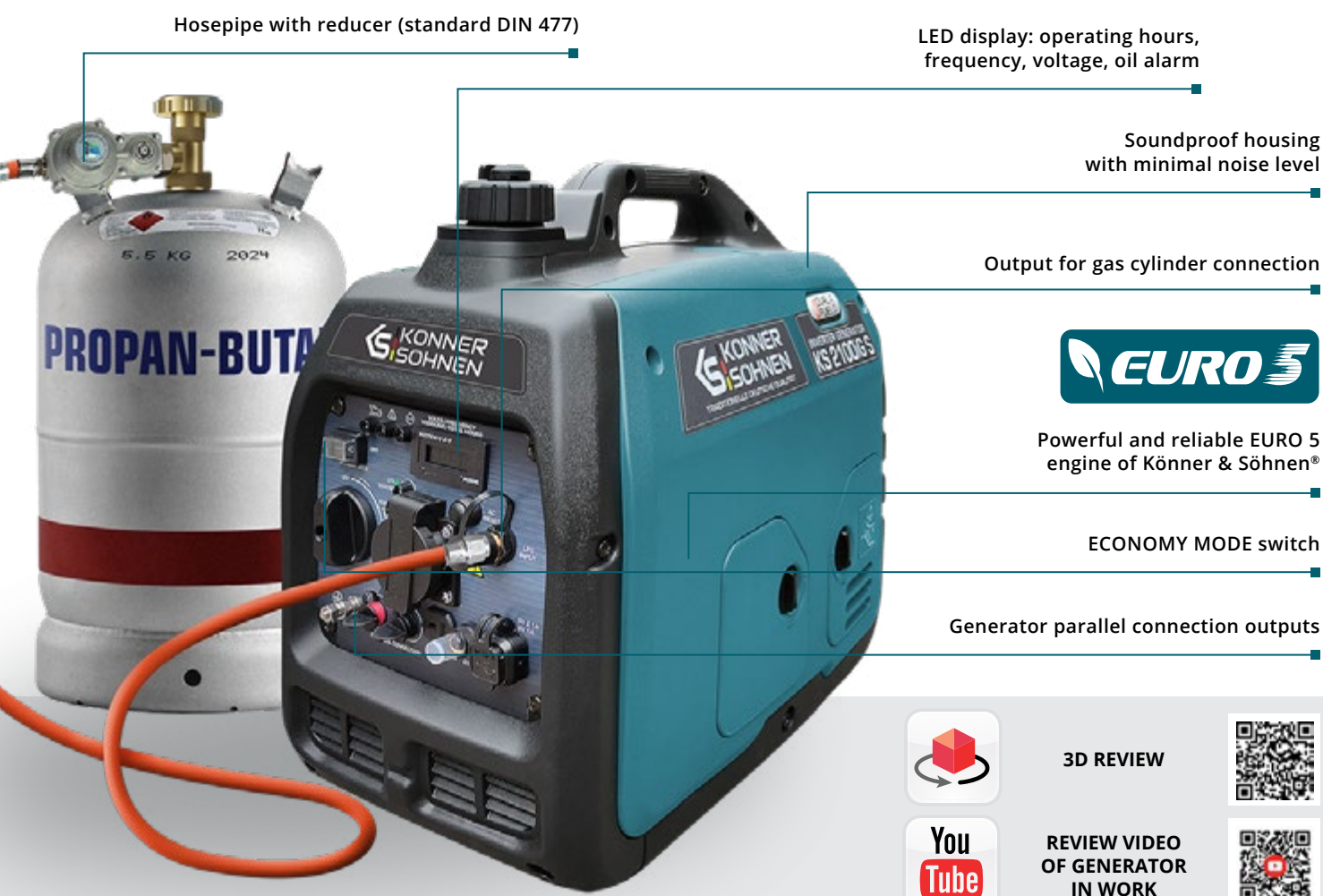


MANUAL/ELECTRIC

## Engine power



2,5–16 HP



3D REVIEW



REVIEW VIDEO  
OF GENERATOR  
IN WORK





#### LPG/GASOLINE

The generator runs on both gasoline and liquefied gas (propane-butane) and includes everything necessary for using LPG as fuel: a hosepipe with reducer, which provides a reliable connection of a gas cylinder. Just connect the generator to the gas cylinder and start the engine.



#### ECONOMY MODE

The ergonomic control panel is equipped with a fuel economy mode switch. This mode reduces fuel consumption by up to 50% at small loads due to lower engine revolutions.



#### HIGH QUALITY ALTERNATOR

Könnér & Söhnen® inverter generators are equipped with a robust brushless alternator with 100% copper winding.



#### ECONOMICAL CHOICE

In addition to use with a conventional portable gas cylinder, dual-fuel generators of the trademark Könnér & Söhnen® can be connected to the existing distribution LPG system (propane, butane) with a pressure of 30-50 mBar (the hose for connecting to such a system is not included in the delivery set). If necessary, dual fuel models can be easily switched to work on gasoline.



## KS 2000iG S



|                        |                |
|------------------------|----------------|
| Max power              | 2,0 kW*        |
| Nominal power          | 1,8 kW*        |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 1x16A          |
| Net dimensions (LxWxH) | 500x285x460 mm |
| Net weight             | 19 kg          |



## KS 2100iG S



|                        |                |
|------------------------|----------------|
| Max power              | 2,1 kW*        |
| Nominal power          | 1,8 kW*        |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 1x16A          |
| Net dimensions (LxWxH) | 480x290x430 mm |
| Net weight             | 19 kg          |



## KS 3100iG S



|                        |                |
|------------------------|----------------|
| Max power              | 3,1 kW*        |
| Nominal power          | 2,8 kW*        |
| Voltage                | 230 V          |
| Engine start           | manual         |
| Outlets                | 1x16A          |
| Net dimensions (LxWxH) | 480x290x430 mm |
| Net weight             | 22 kg          |



## KS 4000iEG S



|                        |                 |
|------------------------|-----------------|
| Max power              | 4,0 kW*         |
| Nominal power          | 3,5 kW*         |
| Voltage                | 230 V           |
| Engine start           | manual/electric |
| Outlets                | 2x16A           |
| Net dimensions (LxWxH) | 620x440x510 mm  |
| Net weight             | 40 kg           |



\*LPG operation reduces generator power by 10%.



For models KS 2100iG S, 3100iG S and 5500iES ATSR cables for parallel connection included.

## KS 4100iEG



|                        |                        |
|------------------------|------------------------|
| Max power              | <b>4,0 kW*</b>         |
| Nominal power          | <b>3,6 kW*</b>         |
| Voltage                | <b>230 V</b>           |
| Engine start           | <b>manual/electric</b> |
| Outlets                | <b>2x16A</b>           |
| Net dimensions (LxWxH) | <b>530x410x430 mm</b>  |
| Net weight             | <b>38 kg</b>           |



## KS 5500iEG S



|                        |                        |
|------------------------|------------------------|
| Max power              | <b>5,5 kW*</b>         |
| Nominal power          | <b>5,0 kW*</b>         |
| Voltage                | <b>230 V</b>           |
| Engine start           | <b>manual/electric</b> |
| Outlets                | <b>1x16A, 1x32A</b>    |
| Net dimensions (LxWxH) | <b>610x470x535 mm</b>  |
| Net weight             | <b>52,5 kg</b>         |



## KS 8100iEG



|                        |                       |
|------------------------|-----------------------|
| Max power              | <b>8,5 kW*</b>        |
| Nominal power          | <b>8,0 kW*</b>        |
| Voltage                | <b>230 V</b>          |
| Engine start           | <b>electric</b>       |
| Outlets                | <b>1x16A, 1x32A</b>   |
| Net dimensions (LxWxH) | <b>600x510x560 mm</b> |
| Net weight             | <b>68 kg</b>          |



\*LPG operation reduces generator power by 10%.



For models KS 2100iG S, 3100iG S and 5500iES ATSR cables for parallel connection included.

### LPG/GASOLINE GENERATORS OF DUAL FUEL SERIES FROM KÖNNER & SÖHNEN®:

- ✓ There is no need to add gasoline to the fuel tank to start the generator. The generator can start and run directly on LPG.
- ✓ The most simple connection - all you need is to connect the hose to your cylinder.

- ✓ LPG is a more environmentally friendly fuel than gasoline. The use of gas as fuel provides less emissions of harmful exhaust substances into the atmosphere.
- ✓ Compact size and light weight. Convenient to use, transport and store. Transport wheels make transportation easier and expand the application of these models.





# GASOLINE INVERTER GENERATORS



KS 2000i S



KS 2100i S



KS 3100i S



KS 3300i



KS 4000i S



KS 4000i S ATS

|   |                                   |                                    |                |             |  |                 |
|---|-----------------------------------|------------------------------------|----------------|-------------|--|-----------------|
| Voltage, V                              | 230                               | 230                                | 230            | 230         | 230  | 230             |
| Max power, kW                           | 2,0                               | 2,0                                | 3,1            | 3,3         | 4,0  | 4,0             |
| Nominal power, kW                       | 1,8                               | 1,8                                | 2,8            | 3,0         | 3,5  | 3,5             |
| Frequency, Hz                           | 50                                | 50                                 | 50             | 50          | 50   | 50              |
| Current, A (max)                        | 8,7                               | 8,7                                | 13,5           | 14,4        | 17,4   | 17,4            |
| Outlets                                 | 1x16A                             | 1x16A                              | 1x16A          | 2x16A       | 2x16A  | 2x16A           |
| Fuel tank volume, l                     | 5                                 | 4                                  | 4              | 7           | 12   | 12              |
| Working time at 50% load*, h            | 6,25                              | 4,5                                | 2,7            | 7           | 7,8  | 7,8             |
| LED display                             | voltage, frequency, working hours |                                    |                |             | multifunctional**<br>voltage, frequency, working hours |                 |
| Noise level LPA (7 m)/LWA, dB           | 62/87                             | 62/87                              | 63/88          | 71/96       | 66/91  | 66/91           |
| Power output DC, V/A                    | -                                 | 12/8,3                             | 12/8,3         | 12/8,3      | 12/8,3   | 12/8,3          |
| USB-Outputs                             | 5V/1A, 5V/2,1A                    | 5V/1A, 5V/2,1A                     | 5V/1A, 5V/2,1A | -           | -  | 5V/1A, 5V/2,1A  |
| Engine model                            | KS 100i                           | KS 110i                            | KS 160i        | KS 210i     | KS 240i  | KS 240i         |
| Engine type                             | gasoline, four-stroke             |                                    |                |             |  |                 |
| Engine power, hp                        | 2,5                               | 3,3                                | 4,6            | 5,5         | 7,5  | 7,5             |
| Crank case volume, cm <sup>3</sup>      | 0,4                               | 0,35                               | 0,45           | 0,6         | 0,6  | 0,6             |
| Engine cylinder volume, cm <sup>3</sup> | 79,7                              | 79,7                               | 145            | 208         | 223  | 223             |
| Outputs for parallel connection         | +                                 | parallel connection cable included |                | -           | +  | -               |
| Engine start                            | manual                            | manual                             | manual         | manual      | manual/electric  | manual/electric |
| Lithium battery, Ah                     | -                                 | -                                  | -              | -           | 1,6  | 1,6             |
| ATS input                               | -                                 | -                                  | -              | -           | +  | built-in ATS    |
| Power factor, cos φ                     | 1,0 (230 V)                       | 1,0 (230 V)                        | 1,0 (230 V)    | 1,0 (230 V) | 1,0 (230 V)  | 1,0 (230 V)     |
| Net dimensions (LxWxH), mm              | 480x280x460                       | 480x290x430                        | 480x290x430    | 435x375x455 | 620x440x510  | 620x440x510     |
| Gross dimensions (LxWxH), mm            | 555x335x540                       | 510x320x475                        | 510x320x475    | 450x380x480 | 630x475x570  | 630x475x570     |
| Net weight, kg                          | 19                                | 18,5                               | 21,5           | 25,5        | 40   | 40              |
| Gross weight, kg                        | 21                                | 21,2                               | 23,9           | 27,5        | 43,4   | 43,5            |
| Protection class                        | IP23M                             |                                    |                |             |  |                 |
| QR code                                 |                                   |                                    |                |             |  |                 |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.

\*\*Multifunctional LED-display: voltage, frequency, working hours; overload indicator, voltage indicator, oil level indicator.



Könnér & Söhnen® engines are reliable, high-performance and cost-effective, and conform to European quality standards, including the latest **standard of emission EURO 5**



**ECONOMY MODE.** Engines of inverter generators from Könnér & Söhnen have an **ECONOMY MODE**. This mode allows using the inverter generator at low speeds and reduces fuel consumption by up to 50%.



KS 4100iE

KS 5500iES ATSR

KS 6000iE S

KS 6000iE S ATS

KS 8100iE ATSR

|   |                                   |                                    |                |                                   |                |
|---|-----------------------------------|------------------------------------|----------------|-----------------------------------|----------------|
| Voltage, V                              | 230                               | 230                                | 230            | 230                               | 230            |
| Max power, kW                           | 4,0                               | 5,5                                | 5,5            | 5,5                               | 8,5            |
| Nominal power, kW                       | 3,6                               | 5,0                                | 5,0            | 5,0                               | 8,0            |
| Frequency, Hz                           | 50                                | 50                                 | 50             | 50                                | 50             |
| Current, A (max)                        | 17,4                              | 23,9                               | 23,9           | 23,9                              | 34,8           |
| Outlets                                 | 2x16A                             | 1x16A, 1x32A                       | 1x16A, 1x32A   | 1x32A                             | 1x16A, 1x32A   |
| Fuel tank volume, l                     | 12,5                              | 13,5                               | 11             | 11                                | 20             |
| Working time at 50% load*, h            | 8,1                               | 8,1                                | 7              | 7                                 | 7,1            |
| LED display                             | voltage, frequency, working hours | multifunctional**                  |                | voltage, frequency, working hours |                |
| Noise level LPA (7 m)/LWA, dB           | 70/95                             | 66/91                              | 70/95          | 70/95                             | 70/95          |
| Power output DC, V/A                    | -                                 | 12/8,3                             | 12/8,3         | -                                 | 12/8,3         |
| USB-Outputs                             | 5V/1A, 5V/2,1A                    | 5V/1A, 5V/2,1A                     | 5V/1A, 5V/2,1A | -                                 | 5V/1A, 5V/2,1A |
| Engine model                            | KS 240i                           | KS 330i                            | KS 240i        | KS 240i                           | KS 480i        |
| Engine type                             | gasoline, four-stroke             |                                    |                |                                   |                |
| Engine power, hp                        | 7,5                               | 9,5                                | 7,5            | 7,5                               | 16             |
| Crank case volume, cm <sup>3</sup>      | 0,6                               | 0,85                               | 0,7            | 0,7                               | 1,1            |
| Engine cylinder volume, cm <sup>3</sup> | 223                               | 312                                | 223            | 223                               | 458            |
| Outputs for parallel connection         | -                                 | parallel connection cable included | +              | -                                 | -              |
| Engine start                            | manual/electric                   |                                    |                |                                   | electric       |
| Lithium battery, Ah                     | 1,6                               | 1,6                                | 1,6            | 1,6                               | 1,6            |
| ATS input                               | +                                 | +                                  | +              | built-in ATS                      | +              |
| Power factor, cos φ                     | 1,0 (230 V)                       | 1,0 (230 V)                        | 1,0 (230 V)    | 1,0 (230 V)                       | 1,0 (230 V)    |
| Net dimensions (LxWxH), mm              | 530x410x430                       | 610x470x535                        | 590x390x547    | 590x390x547                       | 600x510x560    |
| Gross dimensions (LxWxH), mm            | 605x420x425                       | 680x510x605                        | 640x425x600    | 640x425x600                       | 725x505x555    |
| Net weight, kg                          | 36,7                              | 52                                 | 39,5           | 40                                | 68             |
| Gross weight, kg                        | 39                                | 57,8                               | 43             | 43                                | 74             |
| Protection class                        | IP23M                             |                                    |                |                                   |                |
| QR code                                 |                                   |                                    |                |                                   |                |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.

\*\*Multifunctional LED-display: voltage, frequency, working hours; overload indicator, voltage indicator, oil level indicator.



**Built-in ATS.** Built-in ATS system (automatic transfer switch). ATS unit is already built into the generator, installation is as simple as possible. The generator control panel with the ATS function is equipped with power terminals, ATS switch and ATS operation indicator.



**Automatic transfer switch.** The generator has the ability to connect the ATS unit (automatic transfer switch). The ATS input has a 8-pin or 7-pin connector.



# LPG/GASOLINE INVERTER GENERATORS



KS 2000iG S







KS 2100iG S



KS 3100iG S



KS 4000iEG S

|   |   |   |   |   |
|---|---|---|---|---|
| Voltage, V                              | 230   | 230   | 230   | 230   |
| Max power, kW                           | 2,0*  | 2,0*  | 3,1*  | 4,0*  |
| Nominal power, kW                       | 1,8*  | 1,8*  | 2,8*  | 3,5*  |
| Frequency, Hz                           | 50  | 50  | 50  | 50  |
| Current, A (max)                        | 8,7   | 8,7   | 13,5  | 17,4  |
| Outlets                                 | 1x16A   | 1x16A   | 1x16A   | 2x16A   |
| Fuel tank volume, l                     | 5   | 4   | 4   | 12  |
| Working time at 50% load**, h           | 6,25  | 4,5   | 2,7   | 7,8   |
| LED display                             | voltage, frequency, working hours   |   |   |   |
| Noise level LPA (7 m)/LWA, dB           | 62/87   | 62/87   | 63/88   | 66/91   |
| Power output DC, V/A                    | -   | 12/8,3  | 12/8,3  | 12/8,3  |
| USB-Outputs                             | -   | 5V/1A, 5V/2,1A  | 5V/1A, 5V/2,1A  | 5V/1A, 5V/2,1A  |
| Engine model                            | KS 100i   | KS 110i   | KS 160i   | KS 240i   |
| Engine type                             | LPG/gasoline, four-stroke   |   |   |   |
| Engine power, hp                        | 2,5   | 3,3   | 4,6   | 7,5   |
| Crank case volume, cm <sup>3</sup>      | 0,4   | 0,35  | 0,45  | 0,6   |
| Engine cylinder volume, cm <sup>3</sup> | 79,7  | 79,7  | 145   | 223   |
| Outputs for parallel connection         | +   | parallel connection cable included  |   | +   |
| Engine start                            | manual  | manual  | manual  | manual/electric   |
| Lithium battery, Ah                     | -   | -   | -   | 1,6   |
| Power factor, cos φ                     | 1,0 (230 V)   | 1,0 (230 V)   | 1,0 (230 V)   | 1,0 (230 V)   |
| Net dimensions (LxWxH), mm              | 500x285x460   | 480x290x430   | 480x290x430   | 620x440x510   |
| Gross dimensions (LxWxH), mm            | 700x335x540   | 510x320x475   | 510x320x475   | 775x475x570   |
| Net weight, kg                          | 19  | 19  | 22  | 40  |
| Gross weight, kg                        | 21  | 22,3  | 24,6  | 46  |
| Protection class                        | IP23M   |   |   |   |
| QR code                                 |  |  |  |  |

\*LPG operation reduces generator power by 10%.

\*\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.

**LPG** **DUAL FUEL series** LPG/gasoline generators from Könnér & Söhnen®. The generator can run on both gasoline and liquefied gas (propane-butane).

**ECONOMY MODE.** Engines of inverter generators from Könnér & Söhnen have an **ECONOMY MODE**. This mode allows using the inverter generator at low speeds and reduces fuel consumption by up to 50%.



KS 4100iEG



KS 5500iEG S



KS 8100iEG

|   |                                   |                                    |                                   |
|---|-----------------------------------|------------------------------------|-----------------------------------|
| Voltage, V                              | 230                               | 230                                | 230                               |
| Max power, kW                           | 4,0*                              | 5,5*                               | 8,5*                              |
| Nominal power, kW                       | 3,6*                              | 5,0*                               | 8,0*                              |
| Frequency, Hz                           | 50                                | 50                                 | 50                                |
| Current, A (max)                        | 17,4                              | 23,9                               | 34,8                              |
| Outlets                                 | 2x16A                             | 1x16A, 1x32A                       | 1x16A, 1x32A                      |
| Fuel tank volume, l                     | 12,5                              | 13,5                               | 20                                |
| Working time at 50% load**, h           | 8,1                               | 8,4                                | 7,1                               |
| LED display                             | voltage, frequency, working hours | multifunctional***                 | voltage, frequency, working hours |
| Noise level LPA (7 m)/LWA, dB           | 70/95                             | 66/91                              | 70/95                             |
| Power output DC, V/A                    | -                                 | 12/8,3                             | 12/8,3                            |
| USB-Outputs                             | 5V/1A, 5V/2,1A                    | 5V/1A, 5V/2,1A                     | 5V/1A, 5V/2,1A                    |
| Engine model                            | KS 240i                           | KS 330i                            | KS 480i                           |
| Engine type                             | LPG/gasoline, four-stroke         |                                    |                                   |
| Engine power, hp                        | 7,5                               | 9,5                                | 16                                |
| Crank case volume, cm <sup>3</sup>      | 0,6                               | 0,85                               | 1,1                               |
| Engine cylinder volume, cm <sup>3</sup> | 223                               | 312                                | 458                               |
| Outputs for parallel connection         | +                                 | parallel connection cable included | -                                 |
| Engine start                            | manual/electric                   | manual/electric                    | electric                          |
| Lithium battery, Ah                     | 1,6                               | 1,6                                | 1,6                               |
| ATS input                               | -                                 | -                                  | -                                 |
| Power factor, cos φ                     | 1,0 (230 V)                       | 1,0 (230 V)                        | 1,0 (230 V)                       |
| Net dimensions (LxWxH), mm              | 530x410x430                       | 610x470x535                        | 600x510x560                       |
| Gross dimensions (LxWxH), mm            | 685x420x430                       | 765x510x605                        | 765x505x555                       |
| Net weight, kg                          | 38                                | 52,5                               | 68                                |
| Gross weight, kg                        | 44                                | 63                                 | 74                                |
| Protection class                        | IP23M                             |                                    |                                   |
| QR code                                 |                                   |                                    |                                   |

\*LPG operation reduces generator power by 10%.

\*\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.

\*\*\*Multifunctional LED-display: voltage, frequency, working hours; overload indicator, voltage indicator, oil level indicator.



**Soundproof housing.** Generators in soundproof housing with minimal noise level.



Könnér & Söhnen® engines are reliable, high-performance and cost-effective, and conform to European quality standards, including the latest standard of emission EURO 5

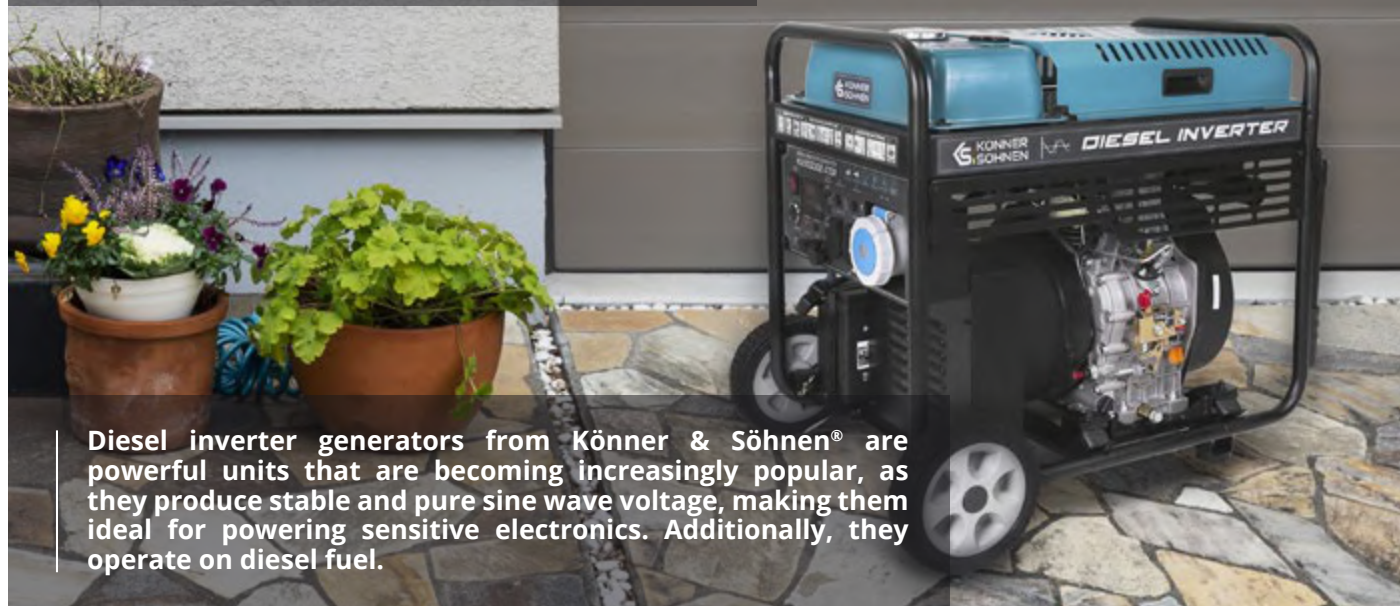




# DIESEL INVERTER GENERATORS



 **5,0 – 10,0 kW**



Diesel inverter generators from Könnér & Söhnen® are powerful units that are becoming increasingly popular, as they produce stable and pure sine wave voltage, making them ideal for powering sensitive electronics. Additionally, they operate on diesel fuel.

Thanks to powerful diesel engines, these generators have an extended service life of up to 3,000 operating hours, providing long-lasting and reliable power. Additionally, diesel fuel is cheaper than gasoline, which means significantly lower operating costs in the long run.

### Generator power



**5.0 kW–10.0 kW**

### Voltage



**230 V**

### Type of start



**MANUAL/ELECTRIC**

### Engine power



**8.8 – 17.7 HP**

### ✓ PURE SINE WAVE

Produces a stable 230V 50Hz sine wave output voltage, which is suitable for the reliable operation of sensitive electronics such as computers, printers, medical equipment, and more.

### ✓ RELIABLE ENGINE

K&S branded, reliable engines are distinguished by increased wear resistance, long-lasting and stable operation, while meeting all European quality standards, including EURO 5.

### ✓ PRE-START HEATING

The pre-start heating system ensures easy engine start even in low ambient temperatures..

### ✓ ATS CONNECTION OPTION

Compatible with an Automatic Transfer Switch (ATS) system for seamless backup power switching.

## KS 6100iD ATSR

|                    |   |
|--------------------|---|
| Max power          | <b>5,5 kW</b>                               |
| Nom. power         | <b>5,0 kW</b>                               |
| Voltage            | <b>230 V</b>                                |
| Engine start       | <b>manual/electric</b>                      |
| Outlets            | <b>2×Schuko 230 V,<br/>1×CEE 230 V 32 A</b> |
| Pre-start heating  | <b>+</b>                                    |
| Dimensions (LxWxH) | <b>660×510×640 mm</b>                       |
| Net weight         | <b>97 kg</b>                                |

**PURE  
SINE WAVE**



## KS 9500iDE ATSR

|                    |   |
|--------------------|---|
| Max power          | <b>10,0 kW</b>                              |
| Nom. power         | <b>9,5 kW</b>                               |
| Voltage            | <b>230 V</b>                                |
| Engine start       | <b>electric</b>                             |
| Outlets            | <b>2×Schuko 230 V,<br/>1×CEE 230 V 63 A</b> |
| Pre-start heating  | <b>+</b>                                    |
| Dimensions (LxWxH) | <b>770×542×722 mm</b>                       |
| Net weight         | <b>130 kg</b>                               |



### REMOTE CONTROL (for model KS 9500iDE ATSR)

The KS 9500iDE ATSR generator can be remotely controlled from up to 50 meters away using a remote control. The remote features two buttons: START and STOP.

Remote control makes using these generators even more convenient, as you don't need to go to the generator to turn it on or off. The generator comes with two remote controls included.

### ATS UNIT (8-Pin Connector)

The automatic transfer switch (ATS) unit automatically starts the generator and switches the load to it when the main power supply is disconnected. It also automatically stops the generator once central power is restored.

## KS ATS 4/63D-INVERTER

|                        |                       |
|------------------------|-----------------------|
| Voltage                | <b>230 V/400 V</b>    |
| Power (230V)           | <b>14.5 kW</b>        |
| Max Current (230V)     | <b>63 A</b>           |
| Power (400V)           | <b>41.5 kW</b>        |
| Max Current (400V)     | <b>63 A</b>           |
| Net Dimensions (L×W×H) | <b>430×195×393 mm</b> |
| Net/Gross Weight       | <b>9.0/10.5 kg</b>    |







# DIESEL POWER PLANT

Diesel power plants of HEAVY DUTY Silent Diesel Generator series from **Könnner & Söhnen®** are developed on the basis of low-speed engines (1500 rpm) from world-renowned companies that produce engines for the markets of Europe and the USA. Absolute compliance of the engines with the standards of reliability, economy, environmental friendliness, technical and operational safety of power plants is the best confirmation of the high quality of products.

This series of power plants includes units with power from **16 to 1000 kVA** for single-phase and three-phase electrical networks based on reliable four-cylinder water-cooled diesel engines.



# 16 – 1000 kVA



ALL KÖNNER & SÖHNEN® POWER  
PLANTS HAVE UNDERGONE RIGOROUS  
TESTING, ENSURING HIGH OPERATIONAL  
PERFORMANCE AND MAXIMUM EFFICIENCY.





## DIESEL POWER PLANTS

The new 4-cylinder diesel power plants of the HEAVY DUTY series are based on reliable water-cooled engines from the French brand Baudouin. They are equipped with an electronic engine speed control system and pre-heating of the coolant. All power plants have galvanic coating, which is more resistant to corrosion and extends the service life of the units.

All of this ensures a long service life and uninterrupted operation of the plants. Even in the most challenging conditions, Könnner & Söhnen power plants will operate stably and reliably, providing uninterrupted power supply, covering a wide range of capacities, enabling the selection of an optimal solution for various facilities and their energy demands. This makes them the most appropriate solution for industries such as manufacturing, agriculture, construction, healthcare, as well as civil and critical infrastructure.



**ELECTRONIC  
ENGINE SPEED  
CONTROL SYSTEM**



**PREHEATER**



**GALVANIC ANTI-  
CORROSION  
COATING**

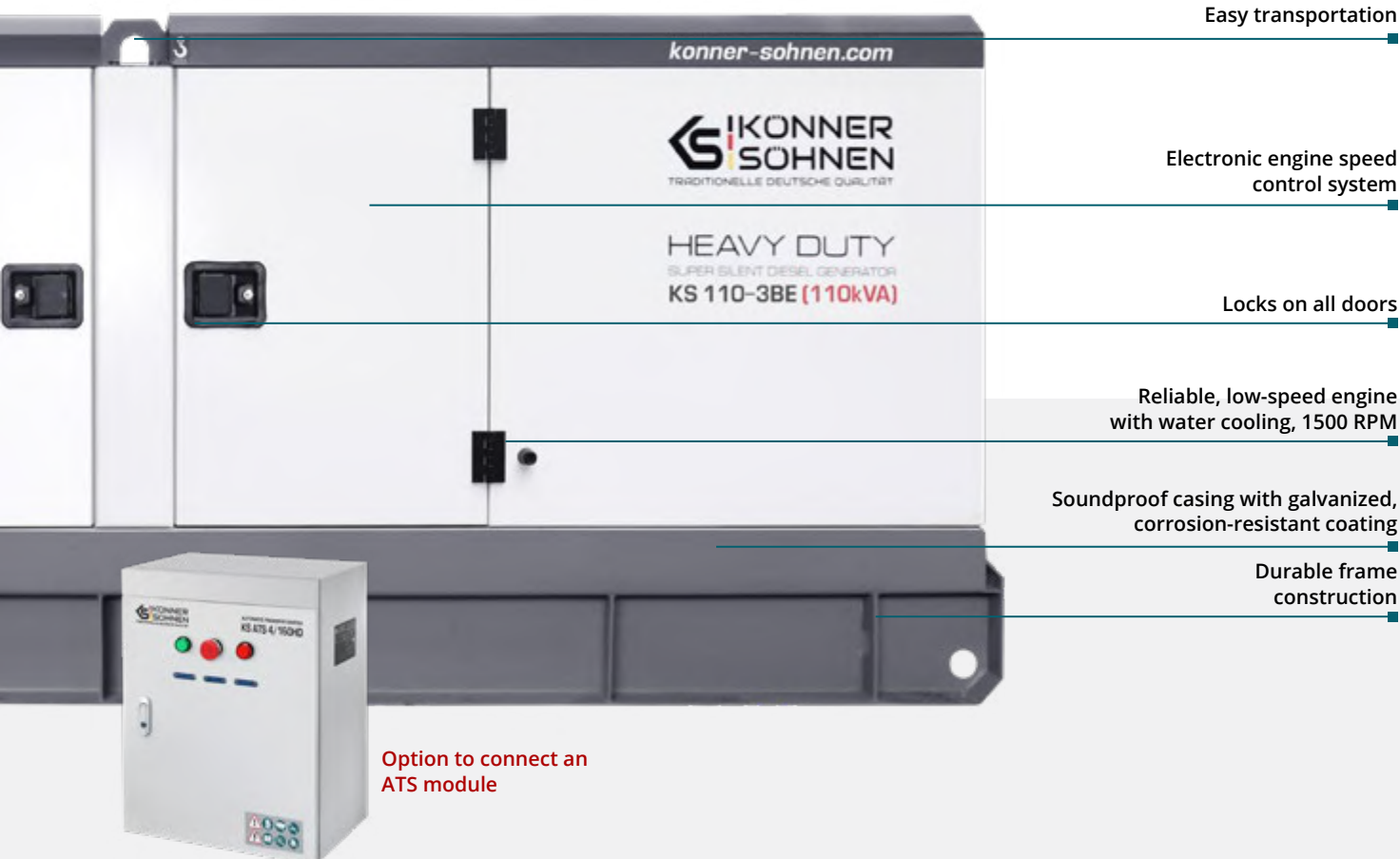


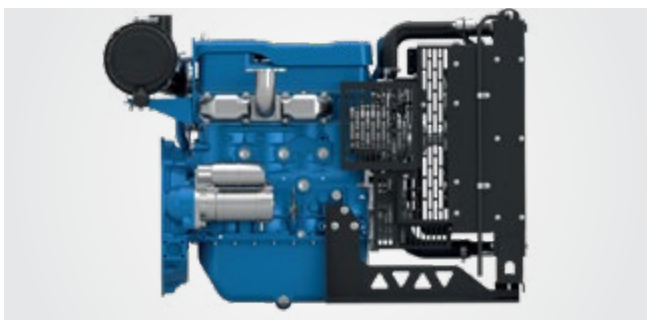
**SUPER SILENT  
MINIMUM NOISE LEVEL  
LPA (7M) – 68 DB**

 **MOTEURS  
Baudouin**

Reliable 4-cylinder, low-speed, water-cooled engines from the French company **Baudouin, 1500 RPM**

- ✓ Complete inspection and commissioning before sale in Europe
- ✓ European quality certificates and 2-year warranty





#### LOW-SPEED RELIABLE ENGINES

Modern low-speed engine 1500 rpm provides optimal performance, has an increased motor resource for long-term use, thanks to which power plants of the German brand are among the most economical in terms of cost. The electronic engine speed control system (optional) is a computer control that automatically adjusts the engine speed, quickly reacts to load changes, improves the quality of electricity produced and guarantees the maximum stable frequency of 50 Hz.



#### BRUSHLESS ALTERNATOR

Equipped with a 4-pole brushless current alternator Stamford type, synchronous type, with a self-excitation system and a high-efficiency electronic voltage regulation system AVR.



#### DIGITAL CONTROLLER

All work processes are managed using a modern multi-function digital control unit. The controller provides verification of all operating state indicators of the power plant, convenient start-up settings and operation of the installation, monitors the battery charge, monitors the engine speed and adjusts the fuel supply depending from load, protects against overheating and low oil level, signals possible malfunctions and also reports about the need for service.



#### SOUNDPROOF ANTI-VANDAL CASING

The high-quality noise-proof housing provides a significant reduction in noise during the operation of the power plant, has improved thermal distribution, protects the power plant from moisture and condensate, from adverse weather conditions and unauthorized intervention. Special galvanic coating (optional) has increased properties of wear resistance, strength, resistance to oxidation and resistance to corrosion.





## KS 35-3BE



|                              |                  |
|------------------------------|------------------|
| Max/nominal power (400V)     | 35/32 kVA        |
| Voltage                      | 230 V/400 V      |
| Fuel tank volume             | 59 l             |
| Fuel consumption at 50% load | 3,43 l/h         |
| Engine speed control         | electronic       |
| Accumulator                  | 85 Ah            |
| Net dimensions (LxWxH)       | 2050×850×1070 mm |
| Net weight                   | 748 kg           |



## KS 50-3BE



|                              |                  |
|------------------------------|------------------|
| Max/nominal power (400V)     | 50/45 kVA        |
| Voltage                      | 230 V/400 V      |
| Fuel tank volume             | 78 l             |
| Fuel consumption at 50% load | 4,43 l/h         |
| Engine speed control         | electronic       |
| Accumulator                  | 85 Ah            |
| Net dimensions (LxWxH)       | 2280×900×1070 mm |
| Net weight                   | 866 kg           |



## KS 72-3BE



|                              |                  |
|------------------------------|------------------|
| Max/nominal power (400V)     | 72/65 kVA        |
| Voltage                      | 230 V/400 V      |
| Fuel tank volume             | 170 l            |
| Fuel consumption at 50% load | 6,64 l/h         |
| Engine speed control         | electronic       |
| Accumulator                  | 100 Ah           |
| Net dimensions (LxWxH)       | 2550×950×1200 mm |
| Net weight                   | 1370 kg          |



## KS 110-3BE



|                              |                   |
|------------------------------|-------------------|
| Max/nominal power (400V)     | 110/100 kVA       |
| Voltage                      | 230 V/400 V       |
| Fuel tank volume             | 185 l             |
| Fuel consumption at 50% load | 9,91 l/h          |
| Engine speed control         | electronic        |
| Accumulator                  | 100 Ah            |
| Net dimensions (LxWxH)       | 2800×1050×1250 mm |
| Net weight                   | 1446 kg           |



## HEAVY DUTY SUPER SILENT DIESEL POWER PLANTS



**Models with Super Silent hood that reduces noise during operation. The noise level Lpa (7m) is 68 dB.**

The new series of diesel generators from Könnér & Söhnen® includes two models with casings that feature enhanced sound absorption thanks to an improved insulation layer, ensuring a minimal noise level of Lpa (7m) = 68 dB. These models are ideally suited for use in locations with strict noise level requirements, particularly in areas where maintaining a quieter environment is essential.



### KS 35-3BES

|                              |                         |
|------------------------------|-------------------------|
| Max/nominal power (400V)     | <b>35/32 kVA</b>        |
| Voltage                      | <b>230 V/400 V</b>      |
| Fuel tank volume             | <b>80 l</b>             |
| Fuel consumption at 50% load | <b>3,43 l/h</b>         |
| Engine speed control         | <b>electronic</b>       |
| Accumulator                  | <b>85 Ah</b>            |
| Net dimensions (LxWxH)       | <b>2160×950×1250 mm</b> |
| Net weight                   | <b>877 kg</b>           |



### KS 50-3BES

|                              |                         |
|------------------------------|-------------------------|
| Max/nominal power (400V)     | <b>50/45 kVA</b>        |
| Voltage                      | <b>230 V/400 V</b>      |
| Fuel tank volume             | <b>80 l</b>             |
| Fuel consumption at 50% load | <b>4,43 l/h</b>         |
| Engine speed control         | <b>electronic</b>       |
| Accumulator                  | <b>85 Ah</b>            |
| Net dimensions (LxWxH)       | <b>2280×950×1250 mm</b> |
| Net weight                   | <b>967 kg</b>           |



## AUTOMATIC TRANSFER SWITCH (ATS)

The Automatic Transfer Switch (ATS) unit automates the process of switching to a backup power source, eliminating the need to manually start and stop the generator when the main power supply is restored.



### KS ATS 4/160HD

|                        |                        |
|------------------------|------------------------|
| Peak power demand      | <b>18 W</b>            |
| Voltage                | <b>230 V/400 V</b>     |
| Power 230 V/400 V      | <b>36,8 kW/88,5 kW</b> |
| Current (max) 400 V    | <b>160 A</b>           |
| Net dimensions (LxWxH) | <b>500x300x600 mm</b>  |
| Net weight             | <b>24 kg</b>           |







# DIESEL POWER PLANTS



**KS 35-3BE**



**KS 50-3BE**



**KS 72-3BE**



**KS 110-3BE**

|                                       |   |             |               |             |               |             |                |             |
|---------------------------------------|---|-------------|---------------|-------------|---------------|-------------|----------------|-------------|
| Number of phases                      | three-phase   |             | three-phase   |             | three-phase   |             | three-phase    |             |
| Voltage, V                            | 230   | 400         | 230           | 400         | 230           | 400         | 230            | 400         |
| Max power, kVA                        | 35  |             | 50            |             | 72            |             | 110            |             |
| Nominal power, kVA                    | 32  |             | 45            |             | 65            |             | 100            |             |
| Power factor, cosφ                    | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)    | 0,8 (400 V) |
| Current, A (max)                      | 50,5  |             | 72,2          |             | 102,8         |             | 158,8          |             |
| Frequency, Hz                         | 50  |             | 50            |             | 50            |             | 50             |             |
| Insulation class                      | H   |             | H             |             | H             |             | H              |             |
| ENGINE CHARACTERISTICS                |   |             |               |             |               |             |                |             |
| Engine type                           | diesel powered four-cylinder, four-stroke water-cooled          |             |               |             |               |             |                |             |
| Engine brand                          | Baudouin  |             | Baudouin      |             | Baudouin      |             | Baudouin       |             |
| Engine model                          | 4M06G35/5   |             | 4M06G50/5     |             | 4M10G70/5     |             | 4M10G110/5     |             |
| Engine speed, rpm                     | 1500  |             | 1500          |             | 1500          |             | 1500           |             |
| Output power, kW                      | 30  |             | 44            |             | 60            |             | 90             |             |
| Engine cylinder volume cm³            | 2300  |             | 2300          |             | 4087          |             | 4087           |             |
| Engine speed monitoring system        | electronic  |             | electronic    |             | electronic    |             | electronic     |             |
| Engine heating                        | +   |             | +             |             | +             |             | +              |             |
| GENERAL CHARACTERISTICS               |   |             |               |             |               |             |                |             |
| Controller                            | Datakom D300  |             | Datakom D300  |             | Datakom D300  |             | Datakom D300   |             |
| Fuel tank volume, l                   | 59  |             | 78            |             | 170           |             | 185            |             |
| Fuel consumption at 50% of load*, l/h | 3,43  |             | 4,43          |             | 6,64          |             | 9,91           |             |
| Crankcase volume, l                   | 11.5  |             | 11.5          |             | 13            |             | 13             |             |
| Coolant volume, l                     | 5   |             | 5             |             | 9,4           |             | 9,4            |             |
| Noise level Lpa (7m)/Lwa, dB          | 97/72   |             | 97/72         |             | 97/72         |             | 97/72          |             |
| Housing                               | noise - proof, moisture-proof, metal, all-weather, vandal-proof |             |               |             |               |             |                |             |
| Housing coating                       | Galvanic coating + powder coating                               |             |               |             |               |             |                |             |
| Battery, Ah                           | 85  |             | 85            |             | 100           |             | 100            |             |
| Battery charger                       | built-in  |             | built-in      |             | built-in      |             | built-in       |             |
| ATS output                            | +   |             | +             |             | +             |             | +              |             |
| Power output controller               | intelligent voltage stabilization system AVR                    |             |               |             |               |             |                |             |
| Protection class                      | IP54  |             |               |             |               |             |                |             |
| Net dimensions (LxWxH), mm            | 2050×850×1070   |             | 2280×900×1070 |             | 2550×950×1250 |             | 2800×1050×1250 |             |
| Gross dimensions (LxWxH), mm          | 2080×880×1090   |             | 2310×930×1090 |             | 2580×980×1270 |             | 2830×1080×1270 |             |
| Net weight, kg                        | 748   |             | 866           |             | 1370          |             | 1446           |             |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.



**Water cooling.** The main advantage of the engine water cooling is the efficient removal of more heat, which helps to extend the service life power plant.



**Models with Super Silent hood that reduces noise during operation. The noise level Lpa (7m) is 68 dB.**



**KS 35-3BES**



**KS 50-3BES**

|                                       |   |             |               |             |
|---------------------------------------|---|-------------|---------------|-------------|
| Number of phases                      | three-phase   |             | three-phase   |             |
| Voltage, V                            | 230   | 400         | 230           | 400         |
| Max power, kVA                        | 35  |             | 50            |             |
| Nominal power, kVA                    | 32  |             | 45            |             |
| Power factor, cosφ                    | 1,0 (230 V)   | 0,8 (400 V) | 1,0 (230 V)   | 0,8 (400 V) |
| Current, A (max)                      | 50,5  |             | 72,2          |             |
| Frequency, Hz                         | 50  |             | 50            |             |
| Insulation class                      | H   |             | H             |             |
| ENGINE CHARACTERISTICS                |   |             |               |             |
| Engine type                           | diesel powered four-cylinder, four-stroke water-cooled          |             |               |             |
| Engine brand                          | Baudouin  |             | Baudouin      |             |
| Engine model                          | 4M06G35/5   |             | 4M06G50/5     |             |
| Engine speed, rpm                     | 1500  |             | 1500          |             |
| Output power, kW                      | 30  |             | 44            |             |
| Engine cylinder volume cm³            | 2300  |             | 2300          |             |
| Engine speed monitoring system        | electronic  |             | electronic    |             |
| Engine heating                        | +   |             | +             |             |
| GENERAL CHARACTERISTICS               |   |             |               |             |
| Controller                            | Datakom D300  |             | Datakom D300  |             |
| Fuel tank volume, l                   | 80  |             | 80            |             |
| Fuel consumption at 50% of load*, l/h | 3,43  |             | 4,43          |             |
| Crankcase volume, l                   | 11,5  |             | 11,5          |             |
| Coolant volume, l                     | 5   |             | 5             |             |
| Noise level Lpa (7m)/Lwa, dB          | 88/68   |             | 88/68         |             |
| Housing                               | noise - proof, moisture-proof, metal, all-weather, vandal-proof |             |               |             |
| Housing coating                       | Galvanic coating + powder coating                               |             |               |             |
| Battery, Ah                           | 85  |             | 85            |             |
| Battery charger                       | built-in  |             | built-in      |             |
| ATS output                            | +   |             | +             |             |
| Power output controller               | intelligent voltage stabilization system AVR                    |             |               |             |
| Protection class                      | IP54  |             |               |             |
| Net dimensions (LxWxH), mm            | 2160×950×1250   |             | 2280×950×1250 |             |
| Gross dimensions (LxWxH), mm          | 2190×980×1270   |             | 2310×980×1270 |             |
| Net weight, kg                        | 877   |             | 967           |             |

\*Fuel consumption depends on many factors, such as load, fuel quality, season, altitude, technical condition of the generator.



**Water cooling.** The main advantage of the engine water cooling is the efficient removal of more heat, which helps to extend the service life power plant.





# CORD REELS AND EXTENSION CABLES

**Extension cord reels** from Könnert & Söhne® are intended for use both indoors and outdoors, on construction sites, in agriculture, as well as in places with high humidity. Könnert & Söhne® cables are very durable and can withstand severe operating conditions and mechanical stress (shocks, fall, runover).

They are made of flexible power cord with 100% copper conductors in rubber insulation, which provides resistance to weathering, UV radiation and ozone. In addition, they are protected from chemical aggression, greases, lubricants and mineral oils. Extension cord reels are halogen-free with low smoke and low corrosive gases emission.

## Total power



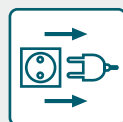
**3000 – 3600 W**

## Cable length



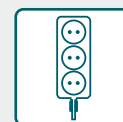
**15 – 30 M**

## Plug



**1x16 A/230 V**

## Sockets



**4x16 A/230 V**

## CABLE SPECIFICATIONS

**Cable type:** H07RN-F 3G2,5

**H** - flexible cable

**07** - rated voltage 450 / 750V

**R** - natural or synthetic rubber insulation

**N** - Chloropren-Gummihülle

**F** - copper conductors

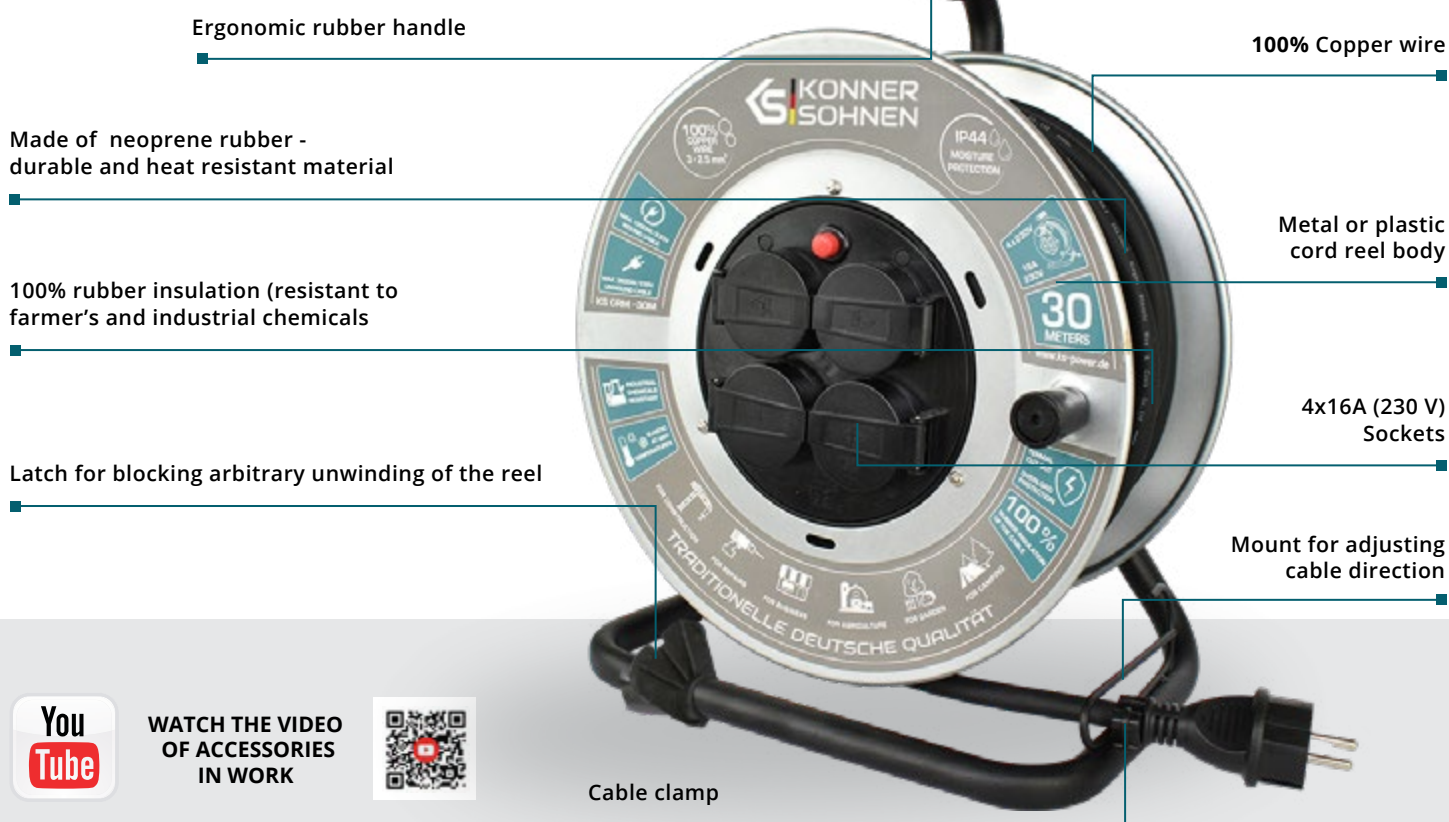
**G** - yellow-green ground wire

**Number of cores** - 3

**Cable color** - black

## RESISTANCE TO EXPOSURE:

- ✓ bend resistance
- ✓ torsion resistance
- ✓ moisture resistance
- ✓ UV radiation, ozone, chemicals, greases, lubricants and mineral oils, mechanical stress



**WATCH THE VIDEO  
OF ACCESSORIES  
IN WORK**





**KS CR-15M**






**KS CR-25M**



**KS CRM-30M**

## CORD REELS

|                                 |   |  |   |
|---------------------------------|---|--|---|
| Total power (unwound cable), W  | 3000  | 3600   | 3600  |
| Cable length, m                 | 15  | 25   | 30  |
| Plug                            | 1x16 A/230 V  | 1x16 A/230 V   | 1x16 A/230 V  |
| Sockets with protective cap     | 4x16 A/230 V  | 4x16 A/230 V   | 4x16 A/230 V  |
| Section diameter (100% copper)  | 3x1,5 mm <sup>2</sup>   | 3x2,5 mm <sup>2</sup>  | 3x2,5 mm <sup>2</sup>   |
| Material of extension cord reel | plastic   | plastic  | metal   |
| Cable reel diameter, mm         | 335   | 380  | 390   |
| Protection class                | IP44  |  |   |
| Net weight, kg                  | 3,2   | 6,5  | 7,8   |
| Gross weight, kg                | 4   | 7  | 8,5   |
| QR code                         |  |  |  |



**KS EX1M-1S**






**KS EX1.5M-3S**



**KS EX3M-4S**

## SOCKET ADAPTER 32 A → 16 A

|                                |   |  |   |
|--------------------------------|---|--|---|
| Total power (unwound cable), W | 3600  | 5000   | 5000  |
| Cable length, m                | 1   | 1,5  | 3   |
| Plug                           | 1x32 A/250 V  | 1x32 A/250 V   | 1x32 A/250 V  |
| Sockets with protective cap    | 1x16 A/250 V  | 3x16 A/250 V   | 4x16 A/250 V  |
| Section diameter (100% copper) | 3x1,5 mm <sup>2</sup>   | 3x2,5 mm <sup>2</sup>  | 3x2,5 mm <sup>2</sup>   |
| Protection class               | IP44  |  |   |
| Net weight, kg                 | 0,36  | 0,7  | 1,45  |
| Gross weight, kg               | 0,4   | 0,78   | 1,55  |
| QR code                        |  |  |  |



Reel is equipped with a **100% copper wires**. Only copper is able to withstand long-term maximum loads, which makes the cable durable and extends its service life.



The socket adapter has a **protection class of IP44**, which allows you to use it externally, as well as at high humidity, thanks to protection against accidental ingress of water droplets and solid particles.



# DISTRIBUTION BOXES



14 – 22 kW

Distribution boxes from Könnér & Söhnen® combine high reliability, modern design, and maximum functionality. They are equipped with sockets for connecting up to 7 groups of devices with a maximum current of up to 32A and are designed for distributing electrical power at 230V/400V.

Hanging distribution boxes from Könnér & Söhnen® are equipped with the maximum level of protection. All sockets are equipped with automatic circuit breakers, and the contacts of the protective switches are made entirely of brass, eliminating the risk of galvanic corrosion. The high quality of components ensures a long service life and protects your electrical system from overloads and short circuits.

### SUITABLE FOR HEAVY DUTY APPLICATIONS



**Robust design**



**Durable ABS plastic**



**Increased shock resistance of the housing IK10**



**Corrosion protection**



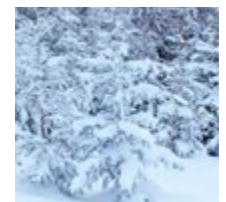
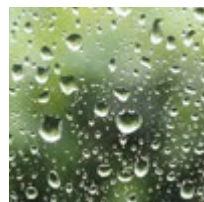
**Reliable insulation**



**IP54 hermetic**

### High degree of protection against all kinds of environmental exposure:

- ✓ Suitable for indoor and outdoor use
- ✓ Splashproof
- ✓ Dustproof





Distribution boxes for connecting various consumers from Könnér & Söhnen® are a full-fledged device for low-voltage equipment, designed to connect various consumers. The distribution box body is made of durable corrosion-resistant ABS plastic and is noted for its reliable quality. The distribution box has a transparent cover for visual monitoring of protective circuit breakers. Easy to use and install, it is designed for wall mounting.

The distribution box is suitable for use on construction sites, in buildings, garages, agricultural buildings, etc. Consumers can be connected both inside and outside premises.

## SUITABLE FOR DOMESTIC AND INDUSTRIAL APPLICATIONS



ON CONSTRUCTION



IN THE WORKSHOP



IN HOUSING



IN THE AGRICULTURAL  
AND FARMING SECTOR



IN PRODUCTION



IN SERVER CENTERS

- ✓ Easy mounting
- ✓ Compact size
- ✓ Simultaneous connection to 7 groups of devices






KS DB6-P03B



KS DB11-P07B





KS DB11-P24B

|                                |   |  |   |
|--------------------------------|---|--|---|
| Rated current, A               | 32  | 32   | 32  |
| Rated operating voltage, V     | 230/400   | 230/400  | 230/400   |
| Rated frequency, Hz            | 50/60   | 50/60  | 50/60   |
| Capacity, kW                   | 14  | 22   | 22  |
| Earthing system type           | TN-C-S  |  |   |
| Socket type                    | 2xSchuko 230V 16A<br>1xC EE 230V 32A 3P   | 7xSchuko 230V 16A  | 4xSchuko 230V 16A<br>1xC EE 400V 32A 5P<br>1xC EE 400V 16A 5P                         |
| Terminal block                 | 400V 32A, 5x6 mm <sup>2</sup> M32   | 400V 32A, 5x6 mm <sup>2</sup> M32  | 400V 32A, 5x6 mm <sup>2</sup> M32   |
| Circuit protection             | 1x32 A 1P(C)<br>2x16 A 1P(B or C)   | 7x16 A 1P(B or C)  | 1x16 A 3P(C)<br>1x32 A 3P(C)<br>4x16 A 1P(B or C)                                     |
| Operating temperature          | od -25 °C do +40 °C   |  |   |
| Impact resistance of enclosure | IK10  |  |   |
| Net dimensions (LxWxH), mm     | 135x355x140   | 245x355x155  | 245x355x155   |
| Gross dimensions (LxWxH), mm   | 145x365x150   | 255x365x165  | 255x365x165   |
| Net weight, kg                 | ≤ 1.8   | ≤ 2.8  | ≤ 3.4   |
| QR-код                         |  |  |  |

## K&S ACCESSORIES

In the new season, we are introducing to product assortment a full range of accessories. All items are useful and sometimes even indispensable for our products. We also added a range of branded clothing. All presented items can be used both for sales and for promotional activities, customer motivation, and increased loyalty.



## MOISTURE-RESISTANT AND DUSTPROOF GENERATOR COVERS

### KS COVER 10

For all modifications of gasoline generators series KS 2000, 3000.

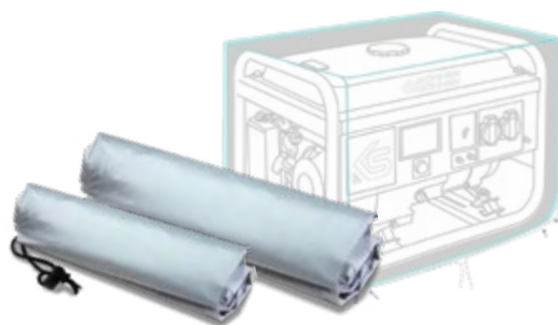
|            |                |
|------------|----------------|
| Dimensions | 600x490x470 mm |
|------------|----------------|

### KS COVER 20




For all modifications of gasoline generators series KS 5000, KS 7000, KS 9000, KS 10000.  
For all modifications of diesel generators with open frame series KS 6000, KS 8000, KS 9000.

|            |                |
|------------|----------------|
| Dimensions | 740x650x550 mm |
|------------|----------------|



- ✓ Protects from rain, snow, sun and wind
- ✓ Resistant to ultraviolet irradiation (UV)
- ✓ Resistant to acid rain and bird droppings
- ✓ Protects from dust and dirt

## FUEL CANS



|                             | KS CAN 5       | KS CAN 10      |
|-----------------------------|----------------|----------------|
| Special anti-static plastic |                |                |
| Capacity                    | 5 l            | 10 l           |
| Dimensions                  | 260x128x255 mm | 330x165x300 mm |



## MOTOR OIL

The **motor oil** and transmission oil of the Könnér & Söhnen® brand ensures reliable protection of your motor even during continuous operation and under extreme loads, thereby considerably increasing its service life. The use of this oil in our devices ensures smooth, continuous operation.

Contains top-quality additives from the world-famous Infineum Corporation (Great Britain)

### Könnér & Söhnen® 10W-30

|                       |            |
|-----------------------|------------|
| Volume                | 1 l        |
| Product quality class | API SL/CF  |
| Class of viscosity    | SAE 10W-30 |

## ULTRA PERFORMANCE



## TRANSMISSION OIL

It reduces friction in moving parts for maximum performance and efficiency, minimizes wear and tear for longer transmission life. An optimally selected composition of additives guarantees smooth operation of the mechanism and effective transmission of power, as well as ensures reliable protection against carbon, sludge and rust deposits. This oil eliminates noise and vibration during operation.



### KS GEAR OIL 80W-90

|                       |            |
|-----------------------|------------|
| Volume                | 1 l        |
| Product quality class | API GL-5   |
| Class of viscosity    | SAE 80W-90 |

## ULTRA PERFORMANCE



## ANTIGEL



### KS D-ANTIGEL 20/60

Könnert & Söhnen® ULTRA Performance diesel fuel anti-gel

|          |   |
|----------|---|
| Capacity | 250 ml  |
| Dosage   | 250 ml of additive<br>per 40-60 liters of diesel fuel |

- ✓ Improves low-temperature properties of diesel fuel
- ✓ Effectively reduces the pour point of diesel fuel
- ✓ Improves fuel pumpability, and enables easy engine start in cold weather
- ✓ Prevents the formation of wax crystals



## DIESEL STABILIZER



### KS D-STAB 60

Könnert & Söhnen® ULTRA Performance diesel fuel stabilizer

|          |   |
|----------|---|
| Capacity | 250 ml  |
| Dosage   | 250 ml of additive<br>per 40-60 liters of diesel fuel |

- ✓ Maintains the original quality of diesel during storage
- ✓ Reliably preserves the fuel system during idle hours
- ✓ Protects the fuel injection pump from corrosion and wear, even if moisture enters the system
- ✓ As well as enables easy engine start after storage



## GASOLINE STABILIZER



### KS G-STAB 60

Könnert & Söhnen® ULTRA Performance gasoline fuel stabilizer

|          |   |
|----------|---|
| Capacity | 250 ml  |
| Dosage   | 250 ml of additive<br>per 40-60 liters of gasoline fuel |

- ✓ Maintains the original quality of gasoline during storage
- ✓ Reliably preserves the fuel system during idle hours
- ✓ Protects the electric gasoline pump from corrosion and wear, even if moisture enters the system
- ✓ As well as enables easy engine start after storage





## AUTOMATIC BATTERY CHARGER WITH AN SAE PLUG FOR LiFePO4, AGM LEAD-ACID AND GEL BATTERIES

The easy-to-use compact charger is designed for charging LiFePo4, AGM, Lead-acid and gel batteries with a voltage of 6 V and 12 V, as well as LiFePo4 batteries with a nominal voltage of 12.8 V (4 cells). Such batteries are used in cars, light trucks, tractors, generators, vans, mobile homes, motor boats, etc., with a capacity of up to 45 Ah.

| KS-B2A                 |                            |
|------------------------|----------------------------|
| Voltage                | 6V/12V/12.8V               |
| Operation mode         | 6V/12V/STD/GEL/AGM/LiFePO4 |
| Rated output current   | 2 A                        |
| Nominal input voltage  | 230 V / 50 Hz              |
| Operation temperature  | -10°C +40°C                |
| Accumulator            | to 45 Ah                   |
| Cable length           | 1,8 m                      |
| Akumulator             | 85 Ah                      |
| Net dimensions (LxWxH) | 92.5×65×35 mm              |
| Net weight             | 0,3 kg                     |



This automatic charger is designed for use from a power supply with a nominal voltage of 230 V. It has an SAE connector on the charge wire, which allows you to change the type of crocodile clips or ring (supplied in a set), and with the help of a special nozzle that comes with the device, you can change the polarity of the wires.

The Automatic Battery Charger is protected from

- ✓ Overheating
- ✓ Short circuit
- ✓ Reverse polarity
- ✓ Overcharge



## CORDLESS SCREWDRIVER



The Könnér & Söhnen® cordless mini screwdriver is a highly convenient, portable tool suitable for a wide range of applications. It is equipped with a high-capacity 3.6 V 1300 mAh lithium-ion battery that ensures stable and long-lasting operation, reducing downtime. Thanks to its ample rotational power and high-quality battery, it can achieve up to 230 rpm and a maximum torque of 3.5 Nm.

### Battery cell



**3,6 V 1300 mAh**

### Rated Voltage



**DC 3,6 V**

### No-load Speed



**0-230 MIN<sup>-1</sup>**

### Max. torque



**3,5 Nm**

✓ **THE UNIQUE SWIVEL HANDLE** provides comfort and convenience during work, enabling easy maneuvering in tight spaces

✓ **THE INTEGRATED MAGNETIC BIT HOLDER** enables quick and easy bit changes, significantly speeding up the work process

✓ **COMPACT SIZE AND LIGHTWEIGHT** at only 0.365 kg make it easy to carry around.



## KS SD-3.6V

|                    |                               |
|--------------------|-------------------------------|
| Rated Voltage      | <b>DC 3,6 V</b>               |
| No-load Speed      | <b>0-230 min<sup>-1</sup></b> |
| Max. torque        | <b>3,5 Nm</b>                 |
| Bits holder        | <b>internal hexagon 1/4"</b>  |
| Battery cell       | <b>3,6 V 1300 mAh</b>         |
| Dimensions (LxWxH) | <b>170x50x150 mm</b>          |
| Net weight         | <b>0,37 kg</b>                |

### THE KIT INCLUDES:

- An integrated 1300 mAh lithium-ion (Li-ion) battery
- USB cable for charging (micro-USB)
- 2 screwdriver bits 50 mm each
- 11 bits of 25 mm each
- 1 holder for bits



# K&S ACCESSORIES

## Protective glasses



### KS GL-1

Polycarbonate glasses

1 pc



## Gloves



### KS GLOVES L

100% leather + textile

Reliable protection against mechanical damage



## Cap

### CAP KS

Color

gray



## T-Shirt KS

Men's (M, L, XL)

Women's (S)



## Polo KS

Men's (M, L, XL)



## Raglan KS

Men's (M, L, XL)



Our accessories are indispensable during technical maintenance. They provide protection and comfort during use.



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