

Please read this manual carefully
before starting!

Manual



Inverter Generator

KS 2000i S

KS 2000iG S

KS 3000i S

KS 3000iG S

KS 4000iE S

KS 4000iEG S

KS 6000iE S

KS 6000iEG S

KS 9500iE S ATSR

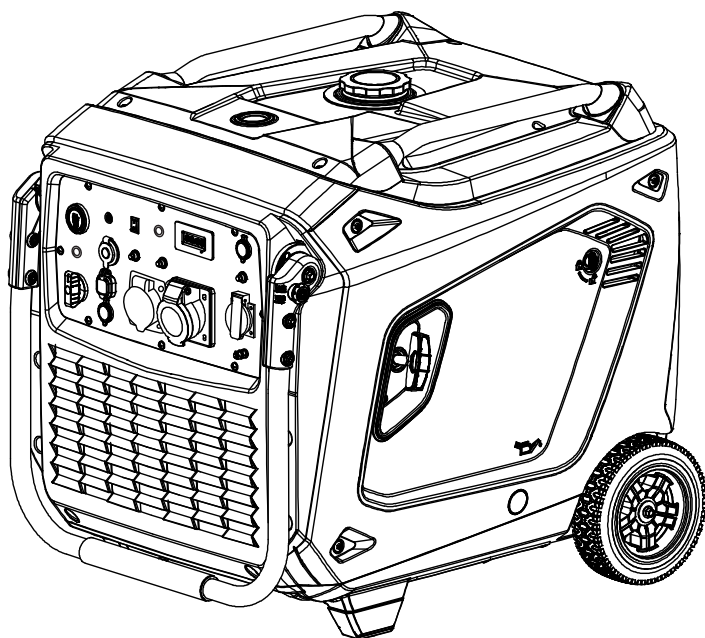


Fig. 1A

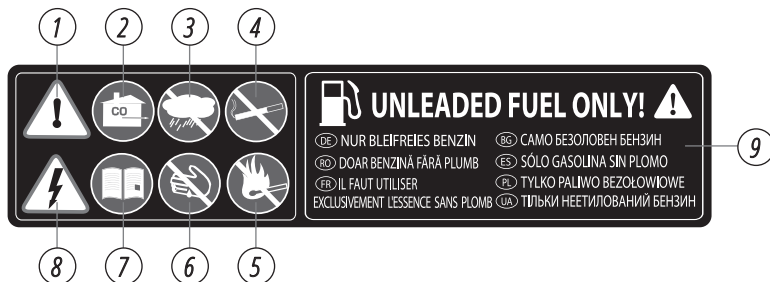


Fig. 1B



Fig. 1C

 KONNER & SÖHNE		KS 6000iEG S		INVERTER GENERATOR GENERATOR INVERTOROWY		 		ENG Konner & Söhne® Manufactured under license and consent of DINA International GmbH, Ringstr. 203, 40235 Düsseldorf, Germany. Assembled in PRC.	
MAXIMUM POWER MOC MASYNAWALNA	5.5kW *	AC CURRENT MAX PRĄD MAX. AC	23.9A	DC RATED CURRENT PRĄD NOMINALNY DC	12V / 8.3A				
RATED POWER MOC NOMINALNA	5.0kW *	PROTECTED CLASS STOPNIEN OCHRONY	IP23M	YEAR OF ISSUE ROK PRODUKCJI	2026				
VOLTAGE NAPIĘCIE	230V / 50Hz	WEIGHT WAGA	kg / S / N						
POWER FACTOR WSPÓŁCZYNNIK MOCY	1	Инверторный генератор KS 6000iEG S. Макс. мощность: 5.5 кВт/Номинальная мощность: 5.0 кВт/Напряжение: 230В. Частота: 50Гц/ Частота: 50Гц/ Коэффициент мощности: 1/ Дата выпуска: 2026.							
*LFA operation reduces generator power by 10% / Робота на газі має генератора зменшує сіяє 10% / Робота на згаданому газі зменшує потужність генератора на 10%.									

Fig. 1D



Fig. 1E

Recommended maintenance schedule		Should be done every month or over a certain number of hours (depending on what comes first)		Every start	First month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Every year or 200 hours
Motor oil	Check the level		X					
	Replace			X	X			
Air filter	Check		X			X		
	Replace			X	X		X	
Spark plug	Check/clean out			X	X		X	
	Replace							X
Fuel tank	Check the level		X					
	Clean out							X
Fuel filter	Check			X	X			
	Replace							X

* Clean out more often in a dusty conditions.
** Maintenance should be done only by authorized specialist.

INVERTERGENERATOR KS 6000iEG S: Max. Leistung: 5.5 kW / Nennleistung: 5.0 kW / Spannung: 230 V / Stromstärke (max.): 23.9 A / Frequenz: 50 Hz / Leistungsfaktor: 1 / Herstellungsdatum: 2026.

Fig. 1F



Fig. 1G



Fig. 2

Modele KS 2000i S, KS 2000iG S, KS 3000E S, KS 3000iG S

Modele KS 4000i S, KS 4000iG S, KS 6000i S, KS 6000iG S

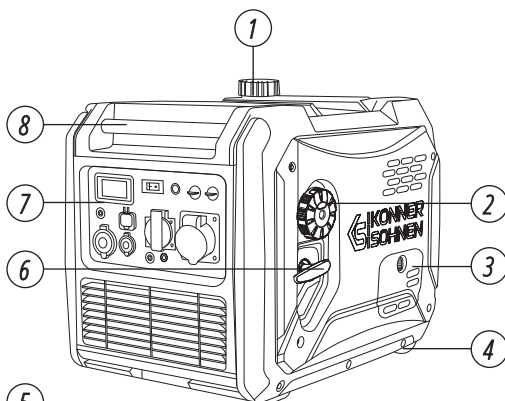
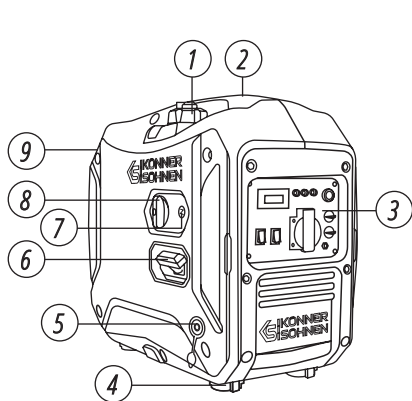




Fig. 2

Model KS 9500iE S ATSR

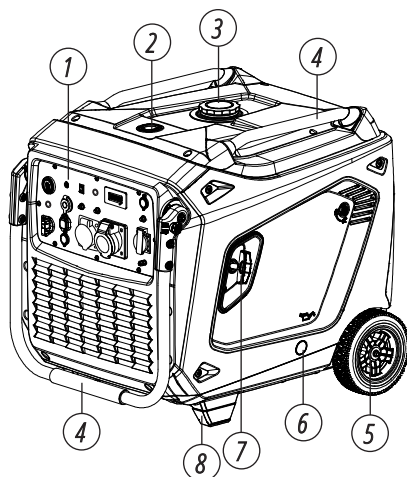
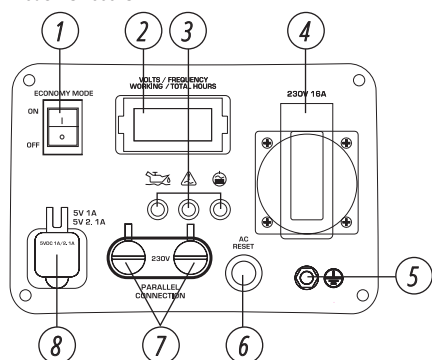


Fig. 3

Model KS 2000i S



Model KS 2000iG S

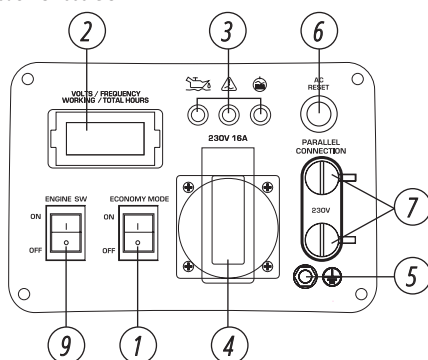


Fig. 4

Model KS 3000i S, KS 3000iG S

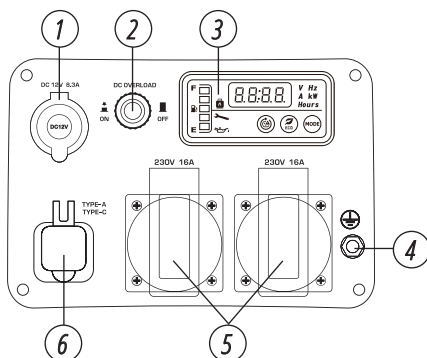




Fig. 5

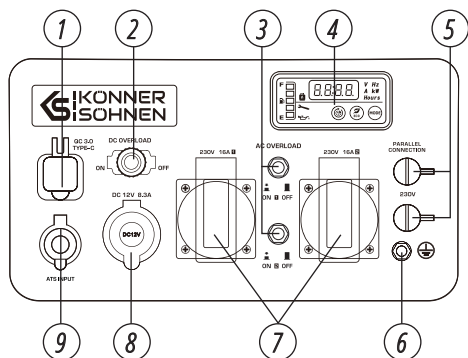
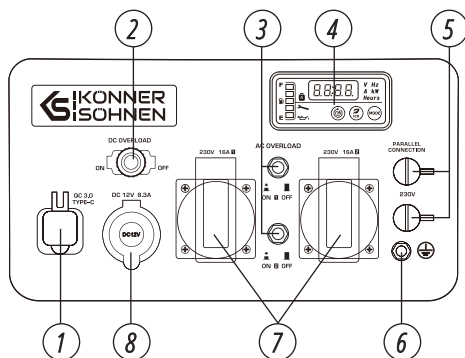
Model KS 4000iE S**Model KS 4000iEG S**

Fig. 6

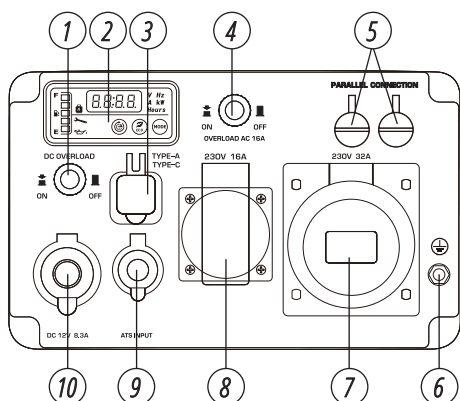
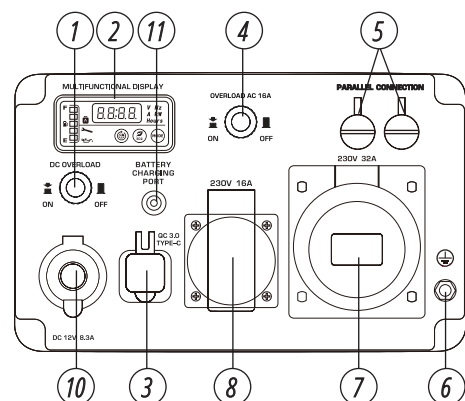
Model KS 6000iE S**Model KS 6000iEG S**

Fig. 7

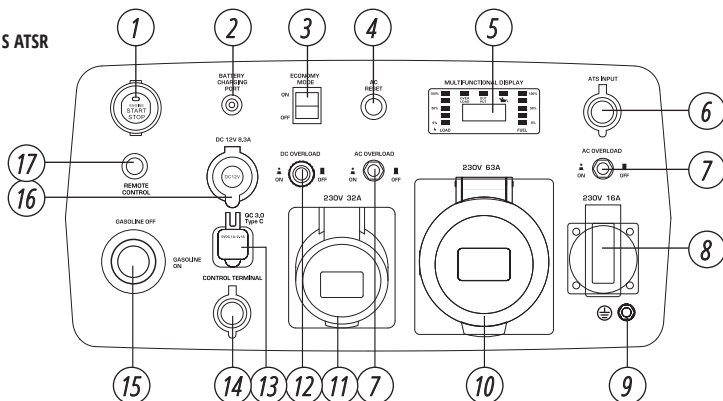
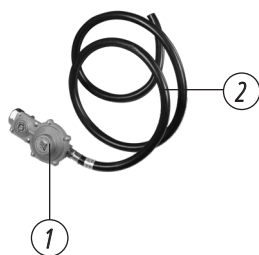
Model KS 9500iE S ATSR



Fig. 8



Fig. 9



für Modelle KS 2000iG S, KS 3000iG S



für Modelle KS 4000iEG S, KS 6000iEG S

Fig. 10A

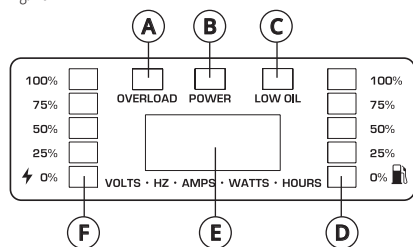


Fig. 10B

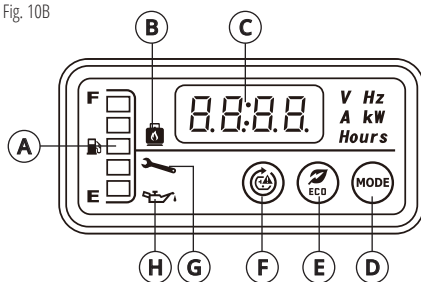


Fig. 11A



Fig. 11B

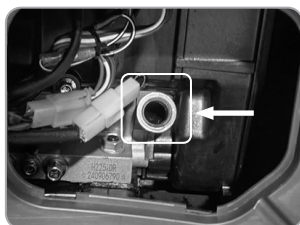


Fig. 11C

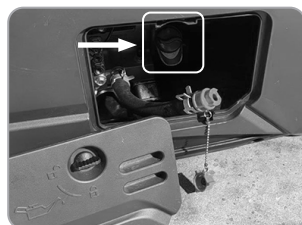
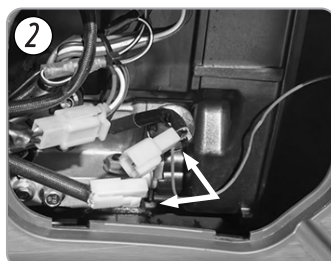


Fig. 12

für Modelle KS 4000iE S, KS 4000iEG S



für Modelle KS 6000iE S, KS 6000iEG S

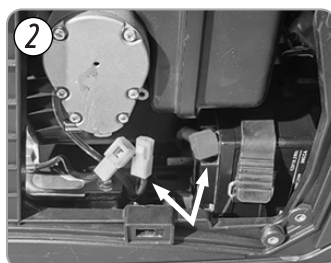


Fig. 17



Fig. 21A



Fig. 21B





INTRODUCTION

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

konner-sohnen.com/pages/instructions

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



| Please, read this manual before use!

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

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

Contact information for technical support is provided on the official website. All information in this manual is correct to the best of our knowledge at the time of publication. The current list of service centers can be found on the official importer's website at **www.konner-sohnen.com**

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

⚠ IMPORTANT! Useful information while operating the machine.



SAFETY INFORMATION

Working area

⚠ ATTENTION – DANGER! When using the generator, attention must be paid to the actual power consumption of the connected electrical devices, including the power factor (cosφ) and the starting power, which for devices with motors can be several times higher than the rated power and must not exceed the maximum output of the generator.

⚠ ATTENTION – DANGER! Pay attention to the number of phases of the generator and the electrical system. A three-phase generator is only suitable for three-phase power consumers. Never connect a three-phase generator to a three-phase home network if there are no three-phase power consumers

⚠ ATTENTION – DANGER! As exhaust gases contain poisonous carbon dioxide and carbon monoxide (CO) gases which are dangerous for life, it is strictly forbidden to install the generator in residential buildings, premises connected to residential buildings by a common ventilation system, other rooms from which exhaust gases may enter living premises.

- Do not use generator in the rain, snow and high humidity conditions, do not touch the generator with wet hands. It's prohibited to leave it in direct sunlight in summer for a long time. It is recommended to store and use the generator under a canopy or in a well ventilated area.
- Place the generator on a flat, hard surface, away from flammable liquids/gases (at a minimum distance of 1 m). Install the generator at a distance of not less than 1 m from the front control panel and not less than 50 cm on each side, including the upper part of the generator. To reduce vibration during operation and to avoid damage to the surface, where the generator is installed, it is equipped with dampers.
- Please don't use the generator near flammable gases, liquids or dust. When using the generator exhaust system gets very hot. This may cause fire or explosion of these materials.
- Be sure to follow cleanliness and good lighting in the work area. Clutter and poor lighting may cause an injury.
- Do not let the presence of unauthorized persons, children or animals when working with generator. If necessary, secure or cordon off the working area the working area.
- Please use safety shoes and protective gloves when working with generator.

Residual risks

Despite all design and safety measures applied to this generator set, certain residual risks may still remain during its operation.

Noise exposure

The guaranteed sound power level of this generator does not exceed the limits established by Directive 2000/14/EC and applicable EU regulations. However, prolonged exposure to noise, even within permitted limits, may cause discomfort or fatigue.

Recommendation: When working close to the running generator for extended periods, use approved hearing protection and avoid staying unnecessarily near the noise source.

Vibration risk

The generator is equipped with vibration-isolating mounts to reduce transmission of vibration to surrounding structures.

Nevertheless, continuous or improper operation may lead to operator discomfort or health effects associated with long-term vibration exposure (such as hand-arm vibration syndrome).

Recommendation: Operate the generator only on its vibration-damping supports and avoid prolonged contact with vibrating components.

Environmental hazards

During fuel filling, oil change, or maintenance, spilled oil or fuel may cause environmental contamination.

! IMPORTANT! Prevent any fuel or oil from entering soil, sewage systems, or water sources.

In case of leakage or accidental spill, stop the engine immediately, collect the liquid with approved absorbent material, and dispose of it according to local environmental regulations.



ELECTRICAL SAFETY

! ATTENTION – DANGER! The device generates electricity. Follow safety precautions to avoid electric shock.

- The generator produces electricity that may lead to an electric shock while neglecting compliance regulations.
- Generators are designed as portable power sources and feature basic protection through insulation of live parts in accordance with DIN VDE 0100-410. Live cables are insulated from the generator frame (IT system with floating neutral). Electrical devices may only be connected directly to the generator's sockets without additional protective measures.

! IMPORTANT! Connecting a distribution board for more than one electrical device may only be carried out by qualified electricians or electrically instructed persons, observing the relevant safety precautions.

- All connecting the generator to the network must be made by certified electrician in accordance with all electrical rules and regulations.
- Never connect the generator to a building installation through a wall socket for power consumer or by means of a cable with two male plugs. Connection to a fixed electrical installation is permitted only through an approved changeover device installed by a qualified electrician. The changeover device must prevent any parallel connection between the generator and the public mains supply.
- It is not allowed to supply current from the electrical network to the generator when the power supply is restored.
- Do not allow moisture in the generator. The water inside the device increases the risk of an electric shock.
- In the high humidity level conditions operation of the generator is prohibited. Keep the generator in a dry place only.
- Avoid direct contact with grounded surfaces (pipes, radiators, etc.).
- Be careful when working with power cables. Immediately replace it in case of damage, as damaged wire increases the risk of electric shock.
- Do not connect or disconnect a generator to electricity consumers, which are placed in water on a wet or damp soil.
- Do not touch parts of the generator under voltage.
- Connect the generator to those customers only which meet the electrical characteristics and the rated power of the generator.
- Store all electrical equipment dry and clean. Wires with damaged or spoiled insulation should be replaced. You should also replace worn, damaged or rusty contacts.

! IMPORTANT! It is forbidden to connect to the generator devices which can generate current pulses and direct energy towards the generator (voltage stabilizers, devices with electronic brakes, on-grid and hybrid inverters, etc.).

The generator and power consumers form a closed system, with elements affecting each other. This system is physically different from the public network since it is significantly affected by factors such as unbalanced phase load and non-linear current consumption by power consumers that can cause damage to the generator and power consumers connected to it.

! IMPORTANT! Using device for other purposes deprives the right for free warranty.



PERSONAL SAFETY

- Be careful. Do not operate the generator, if you are tired, under the influence of drugs or alcohol. Inattention may cause a serious injury.
- Avoid inadvertent start. Make sure to set the switch to OFF when you turn off the generator.

! ATTENTION – DANGER! Non compliance to these requirements may result in generator combustion or explosion, as well as in electric wiring ignition inside the structure.

- To avoid inhaling exhaust gas, the generator does not have to work in conditions of poor ventilation. Exhaust gas contains poisonous carbon monoxide.
- It is not allowed to sit or stand on the generator.
- Always keep a stable position and balance when starting the generator.
- Do not overload the generator, use it only for the purpose.



PRECAUTIONS WHEN WORKING WITH GASOLINE GENERATOR

- Do not start the generator operation upon presence of electric load. Disconnect the load before you stop the engine.
- Generator installation is to be performed at minimum 1 meter safety distance from flammable objects. All explosive and flammable materials or substances are to be kept away from the generator, for its engine produces heat during operation.
- Do not refuel the running generator.
- It is forbidden to smoke during generator refuelling operations.
- **Use only unleaded gasoline with an octane rating of 90–95 containing no more than 10% ethanol.** The use of kerosene or any other type of fuel is not allowed! Always follow the manufacturer's recommendations regarding the shelf life and storage of fuel. The fuel in the tank comes into contact with air, which can affect its quality. Over time, depending on the quality of the fuel, deposits may accumulate in the float chamber of the carburetor, which must be drained regularly to ensure the carburetor functions properly. If the generator is not used for an extended period of time, we recommend completely draining the gasoline from the carburetor and the tank via the drain screw on the carburetor to prevent the formation of deposits in the fuel system. Failure to follow these recommendations may lead to the damage of the carburetor.
- Observe the fuel tank refilling. Do not allow overfilling.
- It is forbidden to touch the exhaust system during the generator start and during operation.
- It is forbidden to run the generator in cases when its exposure to rain, snow and possibility of soakage exist.
- Before running the generator, it is necessary to define the place and means of its emergency stop.

⚠ ATTENTION – DANGER! Fuel contaminates the land and groundwater. Do not allow the leaking gasoline from the tank!

Fire safety

Keep a suitable fire extinguisher nearby when operating or servicing the generator.

Use only extinguishers suitable for flammable liquids and electrical equipment, such as:

- CO₂ (carbon dioxide) extinguishers
- Foam extinguishers (AFFF type)

Do not use water-based extinguishers on fuel or electrical fires.

Ensure personnel are trained in the proper use of fire extinguishers.

Each time you start the generator, inspect the battery cables to prevent sparking and possible fire. The batteries must be kept clean. Use only the recommended cables and connections during generator operation. Fuel and fumes generated during operation can be flammable and potentially explosive. Safety regulations require fully charged fire extinguishers to be kept within easy reach of the generator.

⚠ ATTENTION – DANGER! Always start and use the generator set in a well-ventilated area. It is prohibited to use the generator in an unprepared room (without calculated supply ventilation or a properly designed exhaust gas removal system).



PRECAUTIONS WHEN WORKING WITH HYBRID GENERATOR

⚠ IMPORTANT! For dual fuel models, propane-butane mixture for cars (LPG) or propane can be used as gas! It is forbidden to use any other gas!

Do not start the generator operation upon presence of electric load! Disconnect the load before you stop the engine.

- You are allowed to connect all the power consuming supplies only after generator got warmed up. If you start generator with appliances being connected the engine may work unstable due to the fuel remains in the carburetor.
- Disconnect the load before you stop the engine, disconnect all the connected devices first, then close the gas valve, then turn off the engine. After that set the starter switch to OFF position and turn off the gas supply valve.
- Before usage make sure, that all the hoses are connected properly.
- In case of gas leakage, stop the gas flow from the source to generator and switch off all the electric appliances connected as soon as possible.
- For stopping gas powered engine: disconnect all the connected devices first, then close the gas valve, then turn off the engine. After that set the starter switch to OFF position and turn off the gas supply valve.

⚠ ATTENTION – DANGER! Do not allow sparks near gas powered generator during its work.

⚠ ATTENTION – DANGER! The gas cylinder valve must not be closed when the generator is not running. The generator must not be operated on gas in basements.

⚠ ATTENTION – DANGER! Pay attention! Usage of gasoline together with liquefied gas is forbidden! When you operate using gasoline, you must stop LPG supply. When you operate generator using LPG - you must stop gasoline supply.



SAFETY SYMBOLS DECRYPTION

Fig. 1A

1. Be careful when operating the device! Observe the safety instructions in this manual.
2. Operate the generator only in properly prepared rooms or outdoors. Exhaust gases contain CO₂, whose vapors are life-threatening.
3. Do not use or store the device in high humidity.
4. Do not smoke while operating the generator!
5. Observe fire safety regulations, and do not operate the generator near open flame.
6. Do not touch the generator with wet or dirty hands.
7. Read this owner's manual carefully before operating the device.
8. The device generates electricity. Observe safety precautions to avoid electric shock.

9. Use only unleaded petrol with an octane rating of 90–95 containing no more than 10% ethanol.

Fig. 1B Indicates the noise level.

Fig. 1C Product label on the generator, listing technical features, specifications, and manufacturer information for customer and regulatory reference.

Fig. 1D Please don't touch! The working surface heats up when running the generator.

Fig. 1E Maintenance information translated into the language of the country where the generator is sold you may find in "Maintenance".

Fig. 1F Air filter changing is to be performed each 50 hours of the power plant operation (every 100 hours in unusually dusty conditions).

Fig. 1G Information on the required level of oil in the crankcase.



MAIN OVERVIEW (fig. 2)

Models KS 2000i S, KS 2000iG S, KS 3000i S, KS 3000iG S

- | | | |
|---------------------------|--|---|
| 1. Fuel tank cap air vent | 6. Manual starter | 9. Maintenance cover (on the other side of the generator) |
| 2. Carrying handles | 7. Air choke (for models KS 2000iG S) | |
| 3. Control panel | 8. Gasoline fuel switch for models KS 2000iG S, KS 3000iG S. | |
| 4. Antivibration supports | Multifunction engine switch for models KS 2000i S, KS 3000i S. | |
| 5. LPG input | | |

Models KS 4000i S, KS 4000iG S, KS 6000i S, KS 6000iG S

- | | | |
|--|---------------------------|---------------------|
| 1. Fuel tank cap | 3. Maintenance cover | 6. Manual starter |
| 2. Engine switch (multifunction engine switch for models KS 4000iG S, KS 6000iG S) | 4. Transport wheels | 7. Control panel |
| | 5. Antivibration supports | 8. Carrying handles |

Model KS 9500i S ATSR

- | | | |
|-------------------------|---|---------------------------|
| 1. Control panel | 4. Carrying handles | 7. Manual starter |
| 2. Fuel level indicator | 5. Transport wheels | 8. Antivibration supports |
| 3. Fuel tank cap | 6. Maintenance cover (for motor oil change) | |

Control panel for models KS 2000i S, KS 2000iG S (fig. 3)

- | | | |
|---|------------------------------|--|
| 1. Economy mode switch | 4. AC outlet Schuko 230V | 8. USB-Outputs 5V/1A, 5V/2.1A |
| 2. LED display | 5. Earthing bolt | 9. Engine switch OFF/ON for model KS 2000iG S. |
| 3. Oil level indicator, overload indicator, voltage indicator | 6. Reset button | For model KS 2000i S, the multifunction engine switch is located on the generator housing (see "General View", pt. 8). |
| | 7. Generator parallel socket | |

Control panel for models KS 3000i S, KS 3000iG S (fig. 4)

- | | | |
|--------------------------------|-------------------------------|--|
| 1. 12V/8.3A DC outlet | 4. Earthing bolt | For model KS 3000i S, the multifunction engine switch is located on the generator housing (see "General View", pt. 8). |
| 2. 12V DC fuse | 5. AC outlets 2×Schuko 230V | |
| 3. Multifunctional LED display | 6. USB-Outputs 5V/1A, 5V/2.1A | |

Control panel for models KS 4000i S, KS 4000iG S (fig. 5)

- | | | |
|-------------------------------|--------------------------------|-----------------------------|
| 1. USB-Outputs 5V/1A, 5V/2.1A | 4. Multifunctional LED display | 7. AC outlets 2×Schuko 230V |
| 2. 12V DC fuse | 5. Generator parallel socket | 8. 12V/8.3A DC outlet |
| 3. 16A AC circuit breakers | 6. Earthing bolt | 9. ATS input |

Control panel for models KS 6000iE S, KS 6000iEG S (fig. 6)

- | | | |
|--------------------------------|------------------------------|---------------------------|
| 1. 12V DC fuse | 5. Generator parallel socket | 9. ATS input |
| 2. Multifunctional LED display | 6. Earthing bolt | 10. 12V/8.3A DC outlet |
| 3. USB-Outputs 5V/1A, 5V/2.1A | 7. AC outlet CEE 230V 32A | 11. Battery charging port |
| 4. 16A AC circuit breaker | 8. AC outlet Schuko 230V | |

Control panel for model KS 9500iE S ATSR (fig. 7)

- | | | |
|--------------------------------|-----------------------------|---|
| 1. START/STOP Button | 7. 16V AC fuse | 13. USB-Outputs 5V/1A, 5V/2.1A |
| 2. Battery charging socket | 8. AC outlet Schuko 230V | 14. Connection for external PF control contacts |
| 3. Economy mode switch | 9. Earthing bolt | 15. Fuel valve |
| 4. Reset button | 10. AC outlet CEE 230V 63 A | 16. 12V/8.3A DC outlet |
| 5. Multifunctional LED display | 11. AC outlet CEE 230V 32A | 17. Remote control switch |
| 6. ATS input | 12. 12V DC fuse | |



COMPONENTS OF SET

Fig. 8 Inverter generators are supplied in key candle (A), screwdriver PH2 6,0 mm (B), case for accessories (C).

Fig. 9 In addition to the components shown in the figure of a gasoline generator, a generator with a hybrid system (LPG/ gasoline) is equipped with a hose for supplying LPG to the generator.

1. Built-in reducer (30-50 mBar).
2. Gas cylinder connection hose (1.5 m).

Connect the LPG hose to the LPG input.



SPECIFICATIONS

Model	KS 2000i S	KS 2000iG S	KS 3000i S	KS 3000iG S	KS 4000i S	KS 4000iG S	KS 6000i S	KS 6000iG S	KS 9500i S ATSR
Voltage	230V	230V	230V	230V	230V	230V	230V	230V	230V
Maximum power	2.0 kW	2.0* kW	3.3 kW	3.3* kW	4.4 kW	4.4* kW	5.5 kW	5.5* kW	9.5 kW
Nominal power	1.8 kW	1.8* kW	3.0 kW	3.0* kW	4.0 kW	4.0* kW	5.0 kW	5.0* kW	9.0 kW
Frequency	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz	50 Hz
Current (max.)	8.7 A	8.7 A	14.3 A	14.3 A	19.1 A	19.1 A	23.9 A	23.9 A	41.3 A
Outlets	1×Schuko 230V 16A		2×Schuko 230V 16A		2×Schuko 230V 16A		1×Schuko 230V 16A, 1×CEE 230V 32A		
Engine start	manual	manual	manual	manual	manual/electric				manual/electro/ remote
Fuel tank volume	5 l	5 l	5 l	5 l	13 l	13 l	13 l	13 l	30 l
Working time at 50% load (gasoline fuel)**	5h 30 min	5h 30 min	4 h	4 h	7 h 50 min	7 h 50 min	7 h	7 h	10 h 15 min
LED display	voltage, frequency, working hours		multifunctional						
Noise level Lpa (7m)/ Lwa	62/90 dB	62/90 dB	68/95 dB	68/95 dB	66/97 dB	66/97 dB	70/97 dB	70/97 dB	70/97 dB
Output 12V	–	–	12V/8.3A	12V/8.3A	12V/8.3A	12V/8.3A	12V/8.3A	12V/8.3A	12V/8.3A
USB (Type-A, Type-C)***	+	–	+	+	+	+	+	+	+
Engine model	KS 100i	KS 100i-H	KS 160i	KS 160i-H	KS 235i	KS 235i-H	KS 245i	KS 245i-H	KS 480i
Engine volume	79,8 cm³	79,8 cm³	143 cm³	143 cm³	223 cm³	223 cm³	223 cm³	223 cm³	438 cm³
Engine type	gasoline, 4 stroke cycle engine	LPG/gasoline 4 stroke cycle engine	gasoline, 4 stroke cycle engine	LPG/gasoline 4 stroke cycle engine	gasoline, 4 stroke cycle engine	LPG/gasoline 4 stroke cycle engine	gasoline, 4 stroke cycle engine	LPG/gasoline 4 stroke cycle engine	gasoline, 4 stroke cycle engine
Engine power	2.5 hp	2.5 hp	5 hp	5 hp	7.5 hp	7.5 hp	7.5 hp	7.5 hp	14.2 hp
Generator parallel socket	+	+	–	–	+	+	+	+	–
Crankcase volume	0.35 l	0.35 l	0.4 l	0.4 l	0.6 l	0.6 l	0.65 l	0.65 l	1.2 l
Power factor	cos φ 1 (230V)								
ATS input	–	–	–	–	+	–	+	–	+
Gross dimensions (L×W×H)	570×350×565	715×350×565	570×350×565	715×350×565	675×500×575 mm		715×525×640 mm		905×715×815
Lithium battery	–	–	–	–	1.6 Ah	1.6 Ah	1.6 Ah	1.6 Ah	3 Ah
Net weight	19 kg	19 kg	22,5 kg	22,5 kg	38 kg	41 kg	43 kg	43 kg	85 kg
Protection class	IP23M								
Maximum permissible deviation from the rated voltage: ±5%									

*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.

*** USB-A: 5V⇌3.6A · 9V⇌2.5A · 12V⇌2A (QC3.0)

USB-C: 5V/9V⇌3A · 12V⇌2.25A · 3.3–11V⇌3A (PD/PPS), up to 33 W

The optimal operating conditions are ambient temperature of 17–25°C, barometric pressure of 0.1 MPa (760 mm Hg), and relative humidity of 50–60%. Under these environmental conditions, the generator can provide maximum performance in terms of the declared specifications. In the event of deviations from these environmental indicators, the generator performance may vary.



EC Declaration of Conformity

Nr. 273

Manufacturer: DIMAX INTERNATIONAL GmbH
Address: Flinger Broich 203, 40235 Düsseldorf, Germany

We DIMAX INTERNATIONAL GmbH, hereby declare under our sole responsibility that specified below products is in conformity with the relevant Union harmonisation legislation.

Product: Inverter generator
Type / Model: KS 2000i S, KS 2000IG S, KS 3000i S, KS 3000IG S, KS 4000i S, KS 4000IEG S, KS 6000i S, KS 6000IEG S, KS 9500i S ATSR

Applied EC Directives: 2006/42/EC Machinery Directive
2014/30/EU Electromagnetic compatibility Directive (EMC)
2000/14/EC Noise Directive (amended in 2005/88/EC)
(EU) 2016/1628 Non-Road mobile machinery emissions
(EU) 2017/654 amended by (EU) 2018/989,
(EU) 2017/655 amended by (EU) 2018/987,
(EU) 2017/656 amended by (EU) 2018/988

Applied Standards: EN ISO 8528-13:2016
EN 55012:2007+A1
EN 61000-6-1:2007
00/14/EC
55/88/EC
EN ISO 3744: 1995

Gasoline engines: KS 100i, KS 100i-H, KS 160i, KS 160i-H, KS 235i, KS 235i-H, KS 245i, KS 245i-H, KS 480i correspond to European Emission Standard Stage V. This is confirmed by EU TYPE - APPROVAL CERTIFICATE issued by department of transport of Luxembourg. Technical service responsible for carrying out the test - TÜV Rheinland Luxembourg GmbH.

2000/14/EC 2005/88/EC Annex VI

For models KS 2000i S, KS 2000IG S Noise measured Lwa = 90 dB (A)
For models KS 3000i S, KS 3000IG S Noise measured Lwa = 95 dB (A)
For model KS 4000i S, KS 4000IEG S, KS 6000i S, KS 6000IEG S, KS 9500i S ATSR Noise measured Lwa = 97 dB (A)

Notification body, responsible for 2006/42/EC Machinery Directive, 2014/30/EU Electromagnetic compatibility Directive (EMC) and 2000/14/EC Noise Directive certificate issuing is TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg, Country: Germany. Phone: +49 (0) 91 16552225, Fax: +49 (0) 91 16552226, Email: service@tuev.com, Website: www.tuv.com/safety
Notified Body number: 0197

Issued date: 2026-06-19
Place of issue: Düsseldorf
Director: Fomin P.

DIMAX
International GmbH
Flinger Broich 203 40235 Düsseldorf
USt-ID: DE296177274
tcommer-scanner.com



REACH Regulation (EC) No. 1907/2006

The manufacturer confirms that this product complies with the requirements of the REACH Regulation concerning the restriction of substances of very high concern (SVHC). We confirm that supplied parts comply with REACH Regulation (EC) 1907/2006 and contain no SVHC above 0.1%

Based on information received from component suppliers, no SVHC are present in concentrations exceeding the limits defined by the regulation.

This declaration is made on the basis of self-assessment and supplier statements.

RoHS Directive 2011/65/EU

This product contains electrical and electronic components that are subject to the RoHS Directive 2011/65/EU. Based on information and test reports provided by component suppliers, the manufacturer confirms that these components comply with RoHS Directive 2011/65/EU.



TERMS OF USE OF INVERTER GENERATOR

Before starting the device, remember that the total power of the connected power consumers should not exceed the nominal power of the generator.

⚠ IMPORTANT! Inverter generators supply 230V 50Hz, and it is forbidden to use such a generator as a replacement for the public power grid for feed-in devices (on-grid inverters, hybrid inverters, microinverters, AC battery storage systems, etc.). Feed-in devices can misinterpret the 230V 50Hz voltage from an inverter generator as the grid and damage the generator through backfeeding.

⚠ IMPORTANT! Make sure that the control panel, the blinds and the underside of the inverter are well cooled and protected against the ingress of small solids, dirt, and water. Improper operation of the cooler can cause damage to the motor, inverter or alternator.



GENERATOR OPERATION

Oil level indicator

When the oil level falls below the level required for operation, the oil level indicator lights up, and then the engine stops automatically. The engine will not start until oil is added.

AC indicator

When the generator is running and producing electricity, the AC indicator light is on.

OVERLOAD indicator

The overload indicator lights up when the connected generator is overloaded, the inverter control unit overheats or the AC output voltage rises. If the overload indicator goes on, the engine will continue to operate, but the generator will no longer produce electricity. In this case, you must perform the following steps:

1. Turn off all connected electrical appliances and stop the engine.
2. Reduce the total power of the connected devices until the nominal power of the generator is reached.
3. Check if the vent grid is clogged. Remove excess dirt or debris, if any.
4. After checking, start the engine.

⚠ IMPORTANT! The overload indicator may light up within several seconds after start-up or when connecting electrical devices requiring a high starting current, such as a compressor or voltage indicator. However, this is not a malfunction.

DC fuse

The DC protector automatically switches to "OFF" when the current of the operating electrical device is higher than the rated current. To use this equipment again, turn on the DC fuse again by pressing the "ON" button.

⚠ IMPORTANT! If the DC fuse turns off, reduce the load of the connected electrical device. If the DC protector turns off again, stop operation and contact your nearest Könnér & Söhnen service center.

Earthing bolt

Depending on the installed network, the generator's grounding screw must be connected either to the equipotential bonding bar (IT network) or to the grounding system (TN network). **The generator is built as an IT system (isolated terra) and has no internal connection between N and PE.** Grounding of the generator is not required for mobile applications and direct power supply to electrical loads. Grounding the generator or equipotential bonding via the grounding screw is not required for mobile applications and direct power supply to electrical loads. Equipotential bonding between the generator and the electrical loads is achieved via the PE contact of the sockets and the corresponding conductors of the power cables. Connection of the external distribution should only be carried out by a qualified electrician, observing all prescribed safety precautions.

It is the responsibility of a trained electrician to follow national regulation to properly assess the correct installation type.

Any modification to bond Neutral to Earth must only be performed by a qualified electrician in accordance with local regulations.

Multifunctional LED-display for model KS 9500iE S ATSR (fig. 10A)

- A:** Overload alarm
- B:** Output indicator
- C:** Low oil alarm

- D:** Fuel level indicator
- E:** Voltage, frequency, current, output power, working hours
- F:** Load

Multifunctional LED-display for models KS 3000i S, KS 3000iG S, KS 4000iE S, KS 4000iEG S, KS 6000iE S, KS 6000iEG S (fig. 10B)

- A:** Fuel level indicator
- B:** Fuel type
- C:** Voltage, frequency, current, output power, working hours
- D:** Menu button

- E:** Economy mode
- F:** Reset button
- G:** Maintenance indicator
- H:** Low oil level indicator

Fuel tank cap air vent (for modifications of models KS 2000i, KS 3000i)

The fuel cap is equipped with a vent for air supply to the fuel tank. When the engine is running, the vent must be in the "ON" position (OPEN). This will allow fuel to enter the carburetor for engine operation. After the generator stops, allow it to cool down and close the air vent on the fuel cap. When the generator is not in use, close the vent to the "OFF" position.



CHECK BEFORE GETTING STARTED

Checking the fuel level

1. Unscrew the fuel cap and check the fuel level in the tank.
2. Fill the fuel tank to the fuel filter level.
3. Tighten the fuel cap securely.
4. For silent models of inverter generator, open the air intake vent on the fuel cap.

Recommended fuel: unleaded gasoline with an octane rating of 90–95 containing no more than 10% ethanol.

Fuel tank volume: see specifications table.

⚠ IMPORTANT! Wipe up spilled fuel immediately with a clean, dry, soft cloth, as the fuel may harm painted surfaces or plastic parts.

⚠ IMPORTANT! Be sure to observe the expiration date of the gasoline. If the generator is not going to be used for an extended period, always drain the gasoline from the carburetor and, if necessary, from the fuel tank. Deposits in the fuel system can lead to engine malfunctions.

Checking the oil level

The generator is transported free of motor oil. Do not start the engine until it is filled with sufficient amount of motor oil.

1. Open the service cover (fig. 11A).
2. Unscrew the oil dipstick (fig. 11B in KS 4000 series model and fig. 11C in KS 6000 series model) and wipe it out with a clean cloth.

3. Fill the crankcase with engine oil. The recommended amount of oil for each model is indicated in the specification chart.
4. Insert the dipstick without screwing it in.
5. Check the oil level by a mark on the oil dipstick.
6. Add oil if the level is below the "HIGH" mark (it is recommended to fill the oil to the maximum level).
7. Screw on the dipstick.

Recommended motor oil: SAE 10W30, SAE 10W40.

Recommended motor oil grade: API Service SG type or higher.

Motor oil quantity: see specifications table.



GETTING STARTED

Before starting the engine, make sure that the rated power of power consumers matches with the power of generator. Do not exceed the nominal power of the generator. **Do not connect any devices before you start the engine!**

⚠ ATTENTION – DANGER! The peak power can be delivered for a short duration, up to approximately 5 seconds. Please note that this may vary depending on environmental conditions. The max power should be used for short periods for starting equipment with high inrush currents. It is not intended for continuous operation. The required starting power of the motor must not exceed the peak starting power of the generator.

⚠ ATTENTION – DANGER! Emergency generators should not run continuously (e.g. by adding fuel to the tank or connecting a large fuel tank) or longer than recommended: 4-6 hours for LPG/gasoline or gasoline generators (depending on the load. After this period, a cooling break is recommended).

This material is for informational purposes only and does not constitute a manual for installing the equipment or connecting it to the mains, but we strongly recommend that you read the instructions below. Equipment connection must always be carried out by a certified electrician responsible for the installation and electrical connection of the equipment according to local laws and regulations. The manufacturer assumes no liability for improper connection of the equipment or for any material or physical damage that may result from improper installation, connection or operation of the equipment.

Commissioning

1. Fill the crankcase with engine oil. The recommended amount of oil for each model is indicated in the specification chart.
2. Check oil level with an oil dipstick. It should be between the MIN and MAX marks on the oil dipstick.
3. Check fuel level.
4. Check that the air filter is correctly installed and clean.

In the first 20 operating hours of the generator, the following requirements should be met:

1. During commissioning, do not connect power consumers, the power of which exceeds 50% of the nominal (operating) power of the device.
 2. After the first 20 operating hours, be sure to change the oil. It is better to drain oil while the engine is still hot after operation to ensure quick and complete oil draining.
 3. Check and clean the air filter, fuel filter and spark plug.
-



LITHIUM BATTERY – CONNECTION & MAINTENANCE

⚠ IMPORTANT! During the first startup, it is necessary to connect the cable linking the generator and the battery.

The generator is shipped with terminals disconnected to prevent battery self-discharge during storage. To connect the battery of models with electric start, proceed as follows:

Fig.12

1. Open the service cover
2. Connect the negative terminal of the battery by connecting the negative cable.

For models with electric start, check if the battery is charged. If necessary, recharge the battery with a dedicated charger for lithium-ion batteries or start the generator with a manual start and allow it to run idle while it is recharging.

Models with electric start are equipped with a lithium (LFP) starter battery. Connect the cable linking the generator and the battery (battery is shipped disconnected to prevent self-discharge). The battery is automatically charged while the generator is running; if the generator is used infrequently or the charge level is low, recharge it via the battery charging port using a suitable charger (max. 14–14.5 V, with LFP mode and reverse polarity protection, e.g., KS-B2A). Avoid repeated start attempts to prevent starter overheating. For long-term battery storage, disconnect the cable from the battery and recharge at least every 1–3 months to maintain the charge at 60%.

Battery Handling. Preparation for Long-Term Storage

If the generator is not used for an extended period (more than one month), the battery must be prepared for storage:

Disconnect the battery:

1. Turn off the generator and make sure all systems are de-energized.
2. Disconnect the cable connecting the generator and the battery.
3. If necessary, remove the battery from the generator for separate storage.

Storage conditions:

1. Store the battery in a dry, clean, and well-ventilated area at a temperature between +5 °C and +25 °C.
2. Avoid direct sunlight and exposure to moisture.

Maintaining the charge:

1. For long-term storage, it is recommended to charge the battery to 60%.
2. If the battery is stored for more than 3 months, it is recommended to recharge it every 2–3 months to 60%.

Returning the battery to operation.

Before reinstalling the battery on the generator:

1. Check the charge level and recharge if necessary.
2. Inspect the casing and terminals for any damage or corrosion.
3. Connect the battery.
4. Ensure all connections and mounts are secure.

Battery maintenance.

In Könnér & Söhnen® models with electric start, you should periodically perform battery voltage checks. The generator battery has a voltage of 12V, if the voltage is lower, you should perform battery charging with the help of an external charger (not included in the delivery set).

To avoid discharging the battery, it is recommended to run the generator at least once a month for 30 minutes. If the generator is not used for a long time, please disconnect the battery from the terminals. The battery that comes with the generator does not require additional maintenance.

If the generator is not used for a long time, the battery may fail. To prolong battery life it is recommended to do battery charging with an external device (not included) every three months.

Battery warranted - three months from the date of purchase of the generator.

⚠ IMPORTANT! Please note that if you fail to start up generators, the batteries may run out; therefore, the batteries must be fully charged before starting operation.

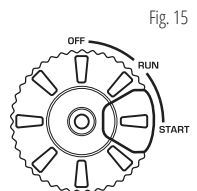
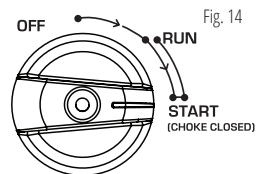
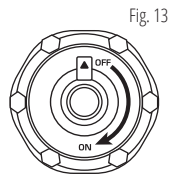
Engine start

⚠ IMPORTANT! Useful tip: If the engine stops shortly after starting or does not start at all, we recommend draining the remaining settled fuel with possible impurities from the carburetor and checking the oil level. The generator is equipped with a low oil level protection system, and the engine will stop if the oil level in the engine is too low.

⚠ IMPORTANT! Deposits from the carburetor's float chamber should be drained regularly. If the generator is not going to be used for an extended period, close the fuel tap and drain the gasoline from the carburetor to prevent possible deposits from forming inside the carburetor.

Running generator on gasoline for models KS 2000i S, KS 3000i S:

1. Check the oil level.
2. Check fuel level.
3. Open the vent on the fuel cap to the "ON" position (fig. 13).
4. Turn the air choke control knob to the "START" position (fig. 14).
5. Pull the manual starter until a slight resistance is felt, then pull it toward you relatively sharply. Slowly return the manual starter by hand, do not release it abruptly.
6. Turn the air choke control knob to the "RUN" position
7. Wait 1-2 minutes and connect electrical appliances.



For models 4000iE S, KS 6000iE S:

1. Check the oil level.
2. Check fuel level.
3. Set the Economy Mode button to the "OFF" position.
4. Set all circuit breakers to "OFF".
5. Turn the Multifunctional engine switch to the "START" position (fig. 15).
- 6.1 For manual start (models KS 4000iE S, KS 6000iE S), pull the manual starter until a slight resistance is felt, then pull it toward you relatively sharply. Slowly turn the manual starter by hand, do not release it abruptly.
- 6.2 For electric start, press the red button on the multifunctional engine switch.
7. After starting the engine, turn the Multifunctional engine switch to the "RUN" position.
8. Wait 1-2 minutes and connect electrical appliances.

⚠ IMPORTANT! Useful tip: to ensure long-term operation of the generator engine, it is important to observe the following tips:

- Before connecting the load, allow the engine to run for 1-2 minutes to warm it up.
- When disconnecting the load after lengthy operation, do not turn off the generator. Allow the generator to run idle for 1-2 minutes so that it cools down.

⚠ ATTENTION – DANGER! Do not connect two or more devices at a time. The start-up of many devices requires high power. Devices should be connected one at a time according to their power rating.

■ For the KS 9500iE S ATSR model:

1. Check the oil level.
2. Check the fuel level.
3. Disconnect all electrical consumers from the generator, if they are connected.
4. Turn the fuel tap to „ON.“
5. Turn off Economy Mode if it is enabled.
- 6.1 Starting with the pull starter:
Pull the recoil until you feel slight resistance. Pull the recoil quickly to its full length. Slowly release the recoil. Repeat this process until the engine has started.
- 6.2 Starting with the START/STOP button:
Press the START/STOP button for approximately 1-2 seconds to start the generator. The starting process begins.
- 6.3 Starting via remote control:
Press the REMOTE CONTROL button on the generator to activate remote control function.
Press the ON button on the remote control for approximately 1-2 seconds to start the generator.
- 6.4 Starting via CONTROL TERMINAL:
The generator can be started (by closing) and stopped (by opening) using external potential-free contacts.

⚠ WARNING! It is prohibited to apply voltage to CONTROL TERMINAL contacts. External control contacts must be potential-free.

If a start with the electric starter fails, we recommend waiting 10 seconds before attempting the next start to prevent the electric starter from overheating. If the battery no longer has enough power to start, it must be charged via the BATTERY CHARGING PORT using a suitable charger with an output voltage of up to 14-14.5V (e.g., KS-B2A). An adapter with SAE connector is included. It is essential to ensure correct polarity.

⚠ WARNING! Regularly check the charge level of the lithium starter battery and recharge it if necessary.

The internally installed starter battery is recharged while the generator is running. To fully charge the battery, the generator must run for 1-2 hours. Therefore, we recommend charging the battery with an external charger if the generator is running infrequently.

If the remote start fails after more than 3 attempts, press the “OFF” button on the remote control to stop further attempts, then switch to manual starting or resolve any issues before trying the remote start again. Failing to do so may result in damage to the starter motor and battery.

If the generator is not going to be used within 48 hours, turn off the start switch to prevent potential battery issues or abnormal starting, and turn off the fuel supply to avoid fuel and oil leakage.

Instructions for operation of the starter battery

- The battery charge should be maintained above 60% to help prolong its service life.
- When starting the generator, avoid starting it multiple times in a row to prevent damage to the battery or circuitry. If the generator fails to start after 5 consecutive attempts, stop and inspect it or take it to a qualified service center for inspection and maintenance.
- If the generator is not in use for an extended period, fully charge the battery before disconnecting the negative terminal and storing the unit in a dry, cool place. Battery self-discharge is affected by ambient temperature and humidity. High temperature and humidity will accelerate the battery self-discharge. The battery should be charged and recharged monthly to keep the charge level above 60%, preventing irreversible capacity loss caused by self-discharge.
- If the battery cannot be charged or the generator fails to start, check whether the battery is discharged or damaged. If the battery is damaged or has low capacity, replace it. The generator can still be started manually even if the battery is depleted or damaged.

■ Running generator on LPG (KS 2000iG S, KS 3000iG S, KS 4000iEG S, KS 6000iEG S models):

Fig. 16

1. Check the oil level.
2. Set the Economy Mode button to the “OFF” position.
3. The inverter generators KS 4000iEG S use smart fuel switching system. In order to use LPG as fuel you need to connect a hose to the corresponding connector and open the valve on the gas cylinder. The solenoid valve will automatically shut off the gasoline supply from the gasoline tank.
4. Connect the LPG hose to the LPG input (connect hose end **A** to the generator's LPG connection and tighten with a wrench, but very carefully to avoid twisting and damaging the gas fitting inside the generator. The torque for tightening the hose when connecting the gas is 6-7 N·m.).
5. Connect the hose end with the reducer to the gas cylinder (connect hose end **B** to the gas cylinder, as shown in Fig. 16).
6. Open the gas valve on the cylinder.

⚠ IMPORTANT! Making sure that no gas is leaking.

7. For the KS 2000iG S, KS 3000iG S models, press the button on the zero pressure regulator (screwed together with the pressure reducer) for 2-3 seconds to fill the hose with gas.



8. Turn the engine multifunction switch to a position between RUN and START so that the choke is half-open.
9. For manual start, pull the manual starter until a slight resistance is felt, then pull it toward you relatively sharply. Slowly turn the manual starter by hand, do not release it abruptly. For electric start, press the red button on the multifunctional engine switch (fig. 15).
10. After starting the engine, turn the Multifunctional engine switch to the "RUN" position (fig. 15).
11. When using for the first time, fill the gas line with gas by turning the key (pressing start button) to the "OFF" position and slowly pull the starter handle to the full cord length 2 to 3 times.

For model KS 2000iG S: Close the choke halfway (pull it out halfway) if the generator has not yet warmed up. Set the GASOLINE FUEL SWITCH to the "OFF" position, set the engine start to the "ON" position, grasp the starter handle and slowly pull it until resistance is felt. Pull the starter cord to the full length with a sharp movement. The generator will start. If this is not the case, repeat this action. Slowly turn the manual starter by hand, do not release it abruptly. Open the air choke by pushing the air choke handle.

⚠ IMPORTANT! Disconnect the load from the generator before changing fuel. The Economy Mode switch must be in the "OFF" position.

For models KS 2000iG S, KS 3000iG S: It is recommended to stop the generator before switching from gasoline to LPG! Gasoline remains in the carburetor make it difficult to start the engine on LPG. Let the generator run out of gasoline until it stops. To do this, close the fuel valve with the generator running and wait until the generator stops completely. Then start the generator on LPG. You can also drain the remaining gasoline from the carburetor before starting the generator on LPG.

To drain gasoline from the carburetor, turn off the fuel valve and wait until the generator has cooled down sufficiently. Make sure that no fuel leaks onto the generator. Tighten up the screw again. Start the generator on LPG according to the instructions mentioned above

Fig.17 For all modifications of models KS 2000i, KS 3000i loosen the 4 screws on the side panel. Loosen drain screw **C** on the carburetor and let the remaining fuel drain through pipe **D** into the dedicated drip pan. Avoid gasoline leaks. Tighten up the screw. Install back the generator housing cover. Start the generator on LPG.

To start LPG/gasoline generator in gasoline mode (KS 2000iG S, KS 3000iG S, KS 4000iEG S, KS 6000iEG S)

1. Close the gas valve on the cylinder.
2. Open the vent on the fuel cap to the "ON" for models KS 2000iG S, KS 3000iG S (fig. 13).
3. Set the fuel switch to "ON" and close the air choke on the control panel.
4. Start the engine by hand or electric start.
5. Open the air choke (for models KS 2000iG S, KS 3000iG S).

⚠ IMPORTANT! Place the container with gas only vertically, according to the instruction manual for gas cylinders. The horizontal placement of gas cylinders leads to hybrid generator gearbox failure.

⚠ IMPORTANT! Fuel switch should only be performed with the load off.

Fuel can be changed without stopping the generator. When switching from gasoline to LPG operation, the generator may be unstable during the first 2-3 minutes and the low voltage protection may trip. If the red indicator (overload indicator) lights up in 2-3 minutes after running the generator on LPG when it is running stable, press the AC Reset BUTTON on a panel of generator to restore voltage supply.

If during usage of gasoline, need to switch to LPG supply, directly connect the LPG pipe, turn on the LPG supply, and press the LPG RESET on the control panel to switch to LPG.

If during usage of LPG, need to switch to gasoline, you only need to disconnect the LPG supply, generator will automatically switch to gasoline operation, without other operations.

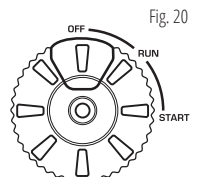
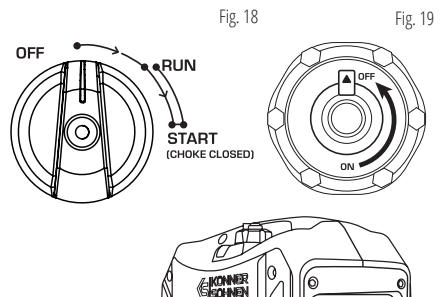
To stop the engine, proceed as follows:

Models KS 2000i S, KS 2000iG S, KS 3000i S, KS 3000iG S

1. Turn off all devices.
2. Allow the generator to run idle for approx. 1-2 minutes.
3. Set the engine switch to the "OFF" position.
4. Turn the Multifunctional engine switch to the "OFF" position (Fig. 18), for dual fuel models - move the fuel switch to the "OFF" position/ close LPG supply valve.
5. Allow the generator to cool down.
6. Unplug the devices.
7. After the generator stops, allow it to cool down and close the air vent on the fuel cap (set to "OFF", as shown in Fig. 19, for models KS 2000i S, KS 2000iG S, KS 3000i S, KS 3000iG S - when switching off gasoline operation).

Models KS 4000iE S, KS 4000iEG S, KS 6000iE S, KS 6000iEG S

1. Turn off all devices.
2. Allow the generator to run idle for approx. 1-2 minutes.
3. Turn the Multifunctional engine switch to the "OFF" position (fig. 20).
4. Close the gas valve
5. Unplug the devices.



Model KS 9500iE S ATSR

1. Turn off all devices.
2. Turn the Eco mode switch to the "OFF" position.
3. Turn off the AC circuit breaker.
4. Gently press the quick start/stop button.
5. Turn the fuel switch to the "OFF" position.
6. Let the generator cool down.
7. Disconnect appliances from the outlets.

⚠ WARNING! If you need to stop the generator in an emergency, put the generator switch in the „OFF“ position.

.....



FUNCTIONAL DESCRIPTION OF INVERTER GENERATORS

Economy mode function

Start the generator with Economy Mode OFF. Activate it only after the engine stabilizes and when the load is low (up to approx. 20% of rated power) to reduce fuel consumption and noise. Switch Economy Mode OFF when connecting high starting current devices, increasing load, during parallel operation, or when charging a battery via 12V DC to avoid overload or voltage instability.

Parallel function

The total output power of the generators can be increased by connecting two inverter generators together using the Parallel Unit KS PU1 from Könnér & Söhnen. Parallel connection of two generators ensures total rated output power of these generators. When the generators are connected in parallel, the power loss is 10% of the total rated power that can be obtained (suitable for all models of inverter generators from Könnér & Söhnen).

Charging an external 12V battery

1. Start the engine.
2. Connect the red wire to the positive (+) terminal of the battery.
3. Connect the black wire to the negative (-) terminal of the battery.
4. Connect the wire to a 12V/8A DC socket on the control panel of the generator.
5. To start charging the battery, set Economy mode to "OFF".
6. Turn the 12 V DC fuse to the "ON" position.

⚠ IMPORTANT! The 12V socket can only be used as a backup source for recharging batteries and shall not be deemed as a full-featured battery charger.

If the DC overload protection trips, stop charging the battery because the charging current is too high. Do not charge batteries if their current consumption is more than 5-8 A (depending on the generator model).

⚠ ATTENTION – DANGER! The 12V connection on the generator is designed only as an emergency power source for 12V batteries and must not be used as a 12V power source for sensitive 12V power consumers.

.....



MAINTENANCE

This manual compliance! You can find a list of service center addresses on the website of exclusive importer: www.konner-sohnen.com

Technical maintenance works

Unit	Action	At each start	First month or 20 operating hours	Every 3 months or 50 operating hours	Every 6 months or 100 operating hours	Every year or 300 operating hours
Motor oil	Level check	✓				
	Replacement		✓	✓		
Air filter	Check /Cleaning	✓	✓	✓		
	Replacement					✓
Spark plug	Cleaning		✓	✓		
	Replacement				✓	
Fuel tank	Level check	✓				
	Cleaning					✓
Fuel filter	Check (clean out)		✓	✓		

- If the generator often operates at high temperature or high load, the oil should be replaced every 25 operating hours.
- If the engine often runs in dusty or other harsh conditions, clean the air filter every 10 operating hours or before each start-up.
- If you missed the maintenance time, perform it as soon as possible to save the generator engine.

⚠ IMPORTANT! The manufacturer shall not be liable for any damage caused by failure to perform maintenance work.



RECOMMENDED OILS

Use oils designed for four-stroke cycle vehicle engines SAE10W-30, SAE10W-40. Motor oils with other viscosity levels, may be used only if the average air temperature in your region does not exceed the limits of the temperature range, specified in the table.

Upon oil level decrease it is necessary to add the required quantity in order to provide the correct generator operation. It is necessary to check the oil levels according to technical maintenance schedule.

SAE Viscosity Class	Operating temperature range
10W-30	from -25 °C to +30 °C
10W-40	from -25 °C to +40 °C (primary recommendation)

To drain engine oil, perform the following actions:

1. Please drain the oil while the engine is warm. This provides a quick and complete oil drain.
2. Wear protective gloves to avoid getting oil on the skin.
3. Open the maintenance cover (fig. 21A).
4. Place a drain oil holding tank under the engine.
5. Turn the drain cap, located in the engine under the oil dipstick cap (fig. 21B).
6. Wait till the oil drains.
7. Replace the drain cap and tighten it well.
8. Close the maintenance cover (fig. 21A).

The generator is equipped with a magnetic oil dipstick. The magnetic tip helps collect small metal particles that may appear in the engine oil during operation. When checking or changing the oil, remove the dipstick and wipe it clean, as metal particles may accumulate on the magnetic tip.

To refill oil, perform the following actions:

1. Make sure that the generator is set on flat level surface.
2. Open the oil dipstick cap on the engine.
3. By means of a funnel, pour the advanced purification engine oil to the crankcase.

⚠ NOTE! The engine oil can be pumped out using an oil suction pump instead of being drained.



AIR FILTER TECHNICAL MAINTENANCE

Air filter cleaning is to be performed each 50 hours of the generator operation (every 10 hours in unusually dusty conditions).

Cleaning the filter:

1. Open the clips on the upper cap of the air filter.
2. Remove the sponge filtering element.
3. Remove all dirt deposits inside the hollow case of the air filter.
4. Thoroughly wash the filtering element in warm soapy water.
5. Dry the sponge filter.
6. Dry filtering element is to be moistened by motor oil and excess oil is to be squeezed out.

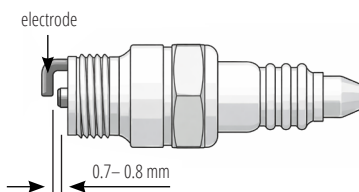


SPARK PLUGS TECHNICAL MAINTENANCE

Spark plug has to be intact, without soot deposits and to have a correct gap.

Spark plug verification:

1. Remove the cap from the spark plug.
2. Remove the spark plug by means of a corresponding spanner.
3. Examine the spark plug. If it is shattered – it is necessary to replace it. Recommended replacement spark plugs F7TC.
4. Measure the gap. It has to be within range 0,7-0,8 mm.
5. In case of repeated use, the spark plug has to be cleaned by means of a metal brush. After that – set the correct gap.

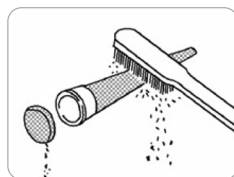


MUFFLER AND SPARK ARRESTER MAINTENANCE

The engine and muffler will get very hot after the generator has been started. Do not touch the engine or muffler with any part of your body or clothing during inspection or repair until they have cooled down.

Remove the screws and then pull the protective cover towards you. Loosen the bolts and remove the cover, screen and spark arrester of the muffler. Descale the screen and spark arrester of the muffler with a wire brush. Inspect the screen and spark arrester of the muffler. Replace them if they are damaged. Replace the flame spark arrester. Replace the screen and cover of the muffler. Replace the cover and tighten the screws.

⚠ IMPORTANT! Match the protrusion of the flame arrester to the hole in the pipe muffler.



FUEL FILTER

⚠ ATTENTION – DANGER! Do not use gasoline near an open flame and do not smoke while handling it.

1. Remove the fuel tank cap and fuel filter.
2. Clean the filter with gasoline.
3. Wipe the filter and replace it.
4. Replace the fuel tank cap. Make sure that the fuel tank cap is tight.



STORAGE

⚠ IMPORTANT! The generator must be stored and transported with a closed vent at all times!

For long-term storage of the generator, it is necessary to drain the gasoline from the fuel tank and carburetor. DO NOT store the generator with gasoline inside. Observe the permitted storage periods for each type of gasoline. The storage area must be dry, clean, and free from dust. The generator should be stored in a locked location out of the reach of children and animals. It is recommended to store and operate the generator at temperatures between -20 °C and +40 °C. Avoid exposing the generator to direct sunlight and rain.

For hybrid generators, the LPG cylinder should be stored indoors at temperatures above +50 °F. At lower temperatures, gas evaporation may decrease, which can affect generator operation.

⚠ IMPORTANT! Warning! Generator is to remain ready for operation at all times. Therefore in case of device malfunctions, they are to be repaired before dismantling the generator for storage.

⚠ IMPORTANT! Before long-term storage of the generator during the engine work close the fuel valve and let the engine to elaborate gasoline from carburetor. Wait until engine stops itself.

Long-term storage

- Generator and engine external parts (especially the cooling radiators) are to be thoroughly cleaned.
- Carburetor float chamber screw has to be removed and the chamber – drained.
- Remove the spark plug.
- Oil drain screw is to be removed and the oil – drained.
- Pour one teaspoon of motor oil to the cylinder (5-10 ml). After that – pull the starter cord for a few times, to let the oil equally distribute on the cylinder walls.
- Install the spark plug.
- Pull the starter handle until you feel the resistance, to let the piston relocate to the upper pressure tact point.
- Smoothly release the starter handle.
- Remove the battery terminals. Grease the battery terminals and connecting terminals with grease to protect against oxidation (if model equipped with fuel filter).

Generator transportation

⚠ IMPORTANT! We recommend filling the fuel tank only 70% to avoid fuel spillage during generator operation and transportation.

For easy generator transportation use packaging, which generator was sold in. Secure the box with the generator so that it does not tip over during transportation. Before moving the generator drain the fuel and disconnect the terminals of the battery. Keep the generator upright. Never place the generator on its side or upside down!

To move the generator from one place to another lift it by holding the handles. Be careful - the generator is heavy (40 to 90 kg). At least two men are needed to move the generator. Be careful, do not expose your feet under the frame of the generator.



RECYCLING INFORMATION

WEEE Directive Compliance (2012/19/EU)

This product is subject to the European Directive 2012/19/EU on Waste Electrical and Electronic Equipment (WEEE). The inverter generator must not be disposed of together with household waste. At the end of its service life, the product must be taken to an authorized collection point for electrical and electronic equipment for proper treatment, recovery, and recycling. The generator housing is made of plastic and should be recycled in accordance with local regulations. The packaging materials, including the cardboard box, are recyclable and should be disposed of through appropriate recycling systems.

Battery safety

- Used batteries must be disposed of in accordance with local environmental regulations.
- Do not dispose of batteries in fire or with household waste.
- Improper handling of batteries may cause leakage, fire, or explosion.
- Always replace batteries with the same type and specification recommended by the manufacturer.
- Avoid short-circuiting battery terminals.



POSSIBLE FAILURES AND SOLUTIONS

Typical failures	Possible reason	Solution
Engine does not starting	Engine starting swinch set to OFF position.	Set the engine starting switch to ON.
	Fuel valve set to off position.	Turn the valve to ON position.
	Air flap is opened.	Shut the air choke lever.
	No fuel.	Add fuel.
	Low-quality or dirty fuel is in engine.	Change the fuel.
	Sparking plug smoked or corrupted distance between contacts is not nominal.	Clean or replace the plug; Set proper distance between contacts.
Low engine power / heavy starting	Dirt in fuel tank.	Clean the fuel tank.
	Dirt in the air filter.	Clean the air filter.
	Water in a fuel tank/ carburetor; carburetor is jammed.	Empty the fuel tank, carburetor.
	Distance between contacts of a sparking plug is not nominal.	Set proper distance between contacts.
Engine overheated	Cooling fins are dirty.	Clean the cooling fins.
	Air filter is dirty.	Clean the air filter.
No voltage while working engine	Circuit breaker is active.	Turn on the cricuit breaker.
	Connected cables are corrupted.	Check the cables; if using extension cord, change it.
	Plugged device failure.	Try to connect other devices.
Connected devices are not working while generator is running	Generator is overloaded.	Unplug some devices to reduce load.
	Short circuit ocured in one of the devices connected.	Unplug that device to restore the stability of a system.
	Air filter is dirty.	Clean the air filter.
	Repetitions of an engine are lower than nominal.	Contact the service center.



AVERAGE POWER USAGE

Device	Average power usage
Iron	500-1100 W
Hair dryer	450-1200 W
Coffee machine	800-1500 W
Electric cooking stove	800-1800 W
Toaster	600-1500 W
Air heater	1000-2000 W
Vacuum cleaner	400-1000 W
Radio	50-250 W
BBQ Grill electric device	1200-2300 W
Oven	1000-2000 W
Refrigerator	100-300 W
TV set	100-400 W
Hammer drill	600-1400 W
Drill	400-800 W

Device	Average power usage
Freezer	100-400 W
Grinding machine	300-1100 W
Circular saw	750-1600 W
Angle grinder	650-2200 W
Electric jigsaw	250-700 W
Electric planer	400-1000 W
Compressor	750-3000 W
Water pump	750-3900 W
Electric sawing machine	1800-4000 W
Electric lawn	750-3000 W
Electric powered engines	550-5000 W
Electric fan	750-1700 W
High pressure machine	2000-4000 W
Air conditioner	1000-5000 W



WARRANTY SERVICE TERMS

The international manufacturer warranty is 2 years. The warranty period starts from the date of purchase. Within the warranty period, if the product fails because of defects in the production process, it will be exchanged on the same product or repaired.

The warranty card should be kept throughout the warranty period. In case of warranty card loss, a second one will not be provided. The customer must provide the warranty card and buyer's check during request for repair or exchange. Otherwise, the warranty service will not be provided.

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

CONTACTS

Deutschland:

Hergestellt unter Lizenz und Kontrolle der DIMAX International GmbH.

Importeur und Vertreter in Deutschland:
DIMAX International GmbH, Flinger Broich 203,
40235 Düsseldorf, Deutschland. Produziert in VRC.
amazon@dimaxgroup.com
www.konner-sohnen.com

European Union:

Manufactured under license and control of DIMAX International GmbH, Flinger Broich 203, 40235 Duesseldorf, Germany.

Importer and representative in Netherlands DIMAX International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Poland. Assembled in PRC.
amazon@dimaxgroup.com
www.konner-sohnen.com

The United Kingdom:

Innovation Trade Ltd., 63/66 Hatton Garden Fifth Floor,
Suite 23, London, EC1N 8LE, info.uk@dimaxgroup.de

Technical support

support.uk@dimaxgroup.de
www.konner-sohnen.uk

France:

Fabriqué sous licence et contrôle de DIMAX International GmbH, Flinger Broich 203, 40235 Düsseldorf, Allemagne.

Importateur et représentant en France et en Belgique
DIMAX International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Pologne. Assemblé en RPC.
amazon@dimaxgroup.com
www.konner-sohnen.fr

España:

Fabricado bajo licencia y control de DIMAX International GmbH, Flinger Broich 203, 40235 Düsseldorf, Alemania.

Importador y representante en España de DIMAX International Poland Ltd, Południowa 8 st,
05-830 Stara Wieś, Polonia.
Ensamblado en la República Popular China.
amazon@dimaxgroup.com
www.konner-sohnen.es

Polska:

Wyprodukowano na licencji i pod kontrolą DIMAX International GmbH, Flinger Broich 203,
40235 Duesseldorf, Niemcy.

Importer i przedstawiciel w Polsce:
DIMAX International Poland Sp. z o. o. ul. Południowa 8,
05-830 Stara Wieś, Polska. Zmontowany w CRL.
amazon@dimaxgroup.com
www.konner-sohnen.pl

Україна:

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

Імпортер та представник в Україні:
ТОВ "ТЕХНО ТРЕЙД КС" вул. Електротехнічна 47,
02225, м. Київ, Україна. Змонтовано в КНР

www.konner-sohnen.com.ua

