

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

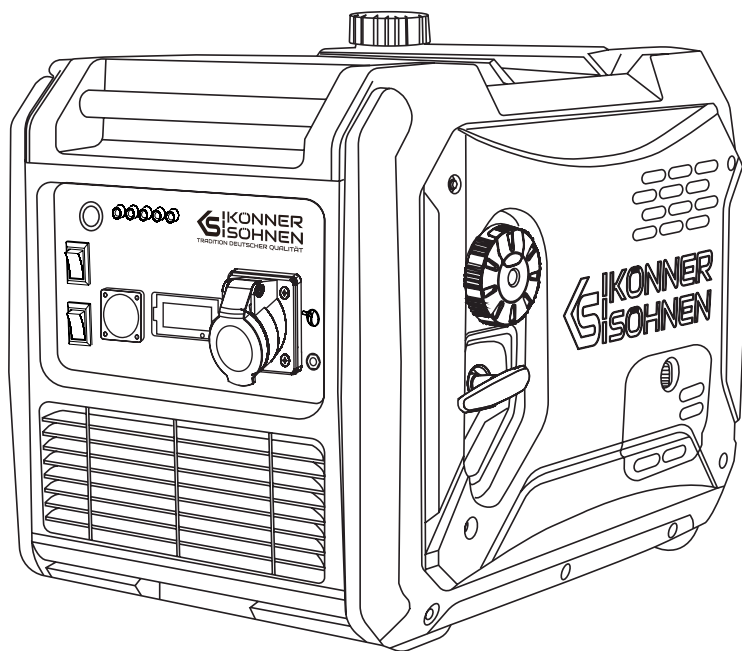
User manual



Inverter generator

KS 4000iES ATS

KS 6000iES ATS





Thank you for choosing **Könnér & Söhnen®** products. This manual contains a brief description of safety, setup usage. More information can be found on the official importer's website in the support section: **konner-sohnen.com/pages/instructions**

You can also go to the support section and download the manual by scanning the QR code or on the website of the official importer of **Könnér & Söhnen®** at **www.konner-sohnen.com**



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



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



The manufacturer of **Könnér & Söhnen®** products reserves the right to make changes that may not be reflected in this manual, namely:

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

Contact information that you are free to use in case of any problems can be found at the end of this manual. All information in this user manual is up-to-date as of 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

1

Do not use the generator in rooms with poor ventilation or in conditions of excessive humidity. Do not place the generator in water or on moist soil. Do not expose the generator to rain, snow, as well as to direct sunlight for a long time. 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. Keep unauthorized persons, children, and animals away from work area. Wear safety shoes and gloves.



ATTENTION – DANGER!



When using the generator, attention must be paid to the actual power consumption of the connected electrical consumers, including the power factor ($\cos\phi$) 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!



As exhaust gases contain poisonous carbon dioxide (CO_2) 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.

**ATTENTION – DANGER!****The device generates electricity. Follow safety precautions to avoid electric shock.****WARNING!****Generators are designed as mobile power sources and provide basic protection through the insulation of live parts in accordance with DIN VDE 0100-410. Live conductors are insulated from the generator frame (IT system). Electrical consumers may be connected directly to the generator sockets without additional protective measures only for direct supply.**

Generators with internal ATS are equipped with an input for an external AC power source, which must be connected on all poles. The PE contact of the connection cable must be connected either to the PE pin of the MAINS INPUT or to the grounding screw of the generator. The connection cable from the external AC power source must be protected by a pre-installed protective device (overload protection in an IT system or overload protection + contact protection in a TT or TN system).

Electrical consumers of protection class I (SK I) must have a protective earth (PE – Protective Earth) connection in the plug, which ensures equipotential bonding between the housings when powered directly from the generator socket. When connecting a sub-distribution system (distribution board, home backup power input), additional protective measures must be applied according to the system design. The grounding screw on the generator is used, if required, for grounding (TN system) or equipotential bonding (IT system). Connection of sub-distribution systems must be carried out exclusively by a qualified specialist in compliance with all applicable regulations.

**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.****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 differs physically from the public grid, where loads are distributed, many consumers operate simultaneously, and the voltage waveform is more evenly balanced. The type and power factor of the electrical consumers supplied by the generator must be carefully considered.

**IMPORTANT!****Using device for other purposes deprives the right for free warranty.****ATTENTION – DANGER!****Be careful. Do not operate the generator, if you are tired, under the influence of drugs or alcohol. Inattention may cause a serious injury.**

PRECAUTIONS WHEN WORKING WITH GASOLINE GENERATOR

1.2

Overheating of the generator due to prolonged operation and insufficient ventilation must be strictly avoided. Do not start the generator operation upon presence of electric load! Disconnect the load before you stop the engine. **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

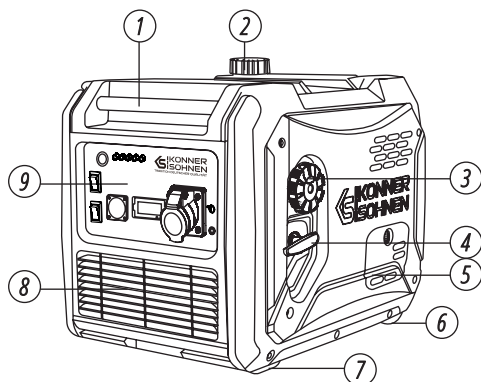
recommend completely draining the gasoline from the carburetor and the tank via the drain screw on the carburetor to prevent the formation of deposits in the fuel system. Failure to follow these recommendations may lead to the damage of the carburetor. Cooling breaks of 30–60 minutes should be taken after each tank of fuel is used.



Fuel contaminates the land and groundwater. Do not allow the leaking gasoline from the tank!

MAIN OVERVIEW

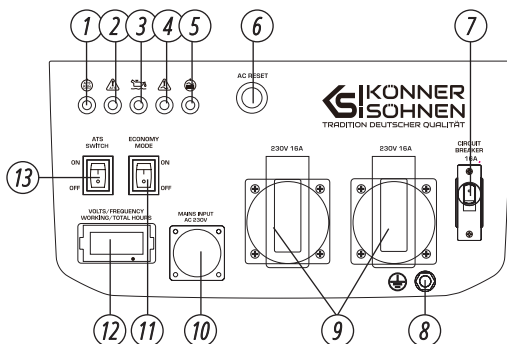
2



1. Carrying handles
2. Fuel tank cap
3. Multifunction engine switch
4. Manual starter
5. Maintenance cover
6. Transport wheels
7. Antivibration supports
8. Ventilation grill
9. Control panel

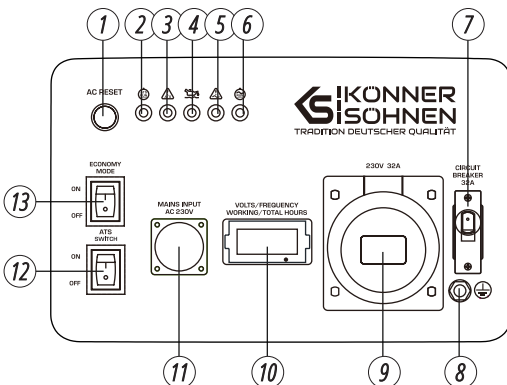
CONTROL PANEL FOR MODEL KS 4000iES ATS

1. ATS operation indicator
2. ATS operation errors
3. Oil level indicator
4. Overload indicator
5. Voltage indicator
6. Reset button
7. Circuit breaker 16A
8. Earthing bolt
9. AC outlets 2×Schuko 230V 16A
10. Mains input AC 230V
11. Economy Mode switch
12. LED display (voltage, frequency, working hours)
13. ATS input button



CONTROL PANEL FOR MODEL KS 6000iES ATS

1. Reset button
2. ATS operation indicator
3. ATS operation errors
4. Oil level indicator
5. Overload indicator
6. Voltage indicator
7. Circuit breaker 32A
8. Earthing bolt
9. AC outlet CEE 230V 32A
10. LED display (voltage, frequency, working hours)
11. Mains input AC 230V
12. ATS input button
13. Economy Mode switch



Model	KS 4000iES ATS	KS 6000iES ATS
AC rated voltage	230 V	
Maximum power (up to 5 s)	4.4 kVA	5.5 kVA
Rated power (cos φ = 1)	4.0 kW	5.0 kW
Rated frequency	50 Hz	
Current (max.)	19.1 A	23.9 A
Outlets	2×Schuko 230V 16A	1×CEE 230V 32A
Engine start	manual/electro	manual/electro
Fuel tank volume	12 l	14,5 l
Working time at 50% load (gasoline fuel)*	7 h 45 min	7 h
LED display	voltage, frequency, working hours	voltage, frequency, working hours
Noise level (Lwa)	95 dB	97 dB
Engine model	KS 240i	KS 240i
Engine volume	223 cm³	223 cm³
Engine type	gasoline, 4 stroke cycle engine	gasoline, 4 stroke cycle engine
Engine power	7.5 hp	7.5 hp
Crankcase volume	0.6 l	0.65 l
ATS input	built-in	built-in
Dimensions (L×W×H)	645×490×595 mm	715×525×640 mm
Starter battery (lithium)	1.6 Ah	1.6 Ah
Net weight	40 kg	43 kg
Protection class	IP23M	
The AC output voltage is 230 V ± 5% for loads with cos φ = 1		

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

To ensure reliability and increase the engine service life, peak powers may be slightly limited by circuit breakers.

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.

Please note that continuous loads exceeding 80% of the generator's rated power are not recommended in order to extend its service life.

TERMS OF USE OF INVERTER GENERATOR

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The voltage produced by inverter generators complies with the European standard DIN EN 50160 for public electricity supply networks.

However, it is important to note that the connected load can affect the generator and its voltage parameters. The generator's rated power is specified for linear loads with a power factor of $\cos \varphi = 1$. The power factor and the type of electrical consumers must be carefully considered.

The Economy Mode reduces engine speed and fuel consumption, but is recommended only for loads up to 20% of the rated power. At higher loads, the Economy Mod should be switched off so that the generator can quickly reach full power when needed.



IMPORTANT!



Inverter generators produce 230 V at 50 Hz and must not be used as a replacement for the main power grid when powering devices designed to feed energy into the electrical grid (such as grid-tied inverters, hybrid inverters, microinverters, etc.). These devices may detect the 230 V 50 Hz output from the inverter generator as the main power supply and can damage the generator through backfeeding.



WARNING!



Inverter generators are equipped with an electronic overload protection system; however, it cannot protect against backfeeding. For electrical consumers with motors, it is important to ensure that the required starting power does not exceed the generator's maximum power.

Motor self-induction can damage the generator, while the generator's overload protection may stop generating output voltage.



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

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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.

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.

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.

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.

CHECK BEFORE GETTING STARTED

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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.

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. 1).
2. Unscrew the oil dipstick (fig. 2) 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. The oil level should be at the MAX level in the upper part of the oil filler neck.
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.

Fig. 1



Fig. 2



GETTING STARTED

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Before starting the engine, ensure that the power of the connected electrical consumers does not exceed the generator's power.



IMPORTANT!



Do not change the controller settings in terms of the amount of fuel governor (this adjustment was made at the factory). Otherwise, this may result in changes in the engine operation or its failure.

**ATTENTION – DANGER!**

When drawing power between the rated and maximum power levels, the generator must not run for longer than 5 seconds. This is common, for example, when starting the electric motor. The required starting power of the motor must not exceed the maximum 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 gasoline generators (depending on load).

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 the air filter for correct installation.

IN THE FIRST 20 OPERATING HOURS OF THE GENERATOR, THE FOLLOWING REQUIREMENTS SHOULD BE MET:

1. It is recommended not to load the generator above 50% for extended periods during the first 20 operating hours, to allow the engine to run in properly.
2. After the first 20 operating hours, be sure to change the oil. The first engine oil change is mandatory after the first 20 to 25 operating hours to remove metallic wear particles from the engine.
3. Check and clean the air filter, fuel filter and spark plug.

**IMPORTANT!**

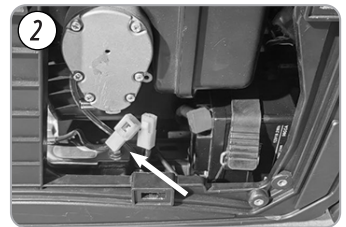
During the initial startup, the negative terminal of the battery must be connected.

The generator is shipped with terminals disconnected to prevent battery self-discharge during storage.

To connect the battery of the KS 4000iES ATS, KS 6000iES ATS generator, proceed as follows:



1. Open the service cover.



2. Connect the negative terminal of the battery by connecting the negative cable.

ENGINE START

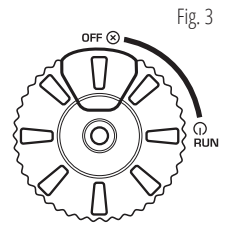
**IMPORTANT!**

Useful tip: If the engine stalls shortly after starting or does not start at all, we recommend draining deposits from the carburetor and checking the oil level. The generator is equipped with a low oil level indicator, and the engine will stop if the engine oil level 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.

1. Check oil level.
2. Check fuel level.
3. Set the Economy Mode switch to "OFF".
4. Turn the multifunctional engine switch to the "RUN" position (fig. 3).
- 5.1 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.
- 5.2 For electric start, press the red button on the multifunctional engine switch (fig. 3).



STARTING IN ATS MODE

1. Check oil level.
2. Check fuel level.
3. Set the Economy Mode switch to "OFF".
4. Turn the Multifunctional engine switch to the "RUN" position (fig. 3).
5. Activate the ATS function by switching the ATS SWITCH to ON. The generator will start automatically when the voltage at the MAINS INPUT fails.



IMPORTANT!



Generators with an internal ATS unit are equipped with a transfer switch that switches the generator output from the MAINS INPUT to the generator's inverter module on all poles with a delay.



IMPORTANT!



The output sockets of the KS 4000iES ATS are configured differently. The left 230 V 16 A socket operates only while the generator is running. The right 230 V 16 A socket is switched on all poles with a delay from the MAINS INPUT to the generator's inverter module.

TO STOP THE ENGINE, PROCEED AS FOLLOWS:

1. Set all circuit breakers to "OFF".
2. Turn off all devices.
3. Allow the generator to run idle for approx. 1-2 minutes.
4. Turn the multifunctional engine switch to the "OFF" position (fig. 3).
5. Allow the generator to cool down.
6. Unplug the devices.

CONNECTION OF GENERATOR WITH BUILT-IN ATS

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Connection diagrams for generators with built-in ATS can be found in the website of Könnér & Söhne.



ATTENTION - DANGER!



Risk of electric shock! Network connection should only be carried out by a qualified technician.

The inverter generators of the KS 4000iES ATS and KS 6000iES ATS series are equipped with an automatic transfer switch (ATS) module, a power switch, and a battery charging module. The ATS module monitors the 230V voltage at the MAINS INPUT and automatically starts the generator when this voltage is lost. This function is activated and deactivated using the ATS SWITCH.

Activating the automatic power function:

Set the rotary switch to the "RUN" position (fig. 3).

Set the ATS SWITCH to the "ON" position (Fig. 4).

The ECONOMY MODE switch should be in the "OFF" position: (Fig. 4).

If the ATS SWITCH is set to "OFF", the generator operates the same as models without the ATS module, and it can be started manually or by pressing the button (the red START button on the rotary switch).



Fig. 4

Switching from the MAINS INPUT to generator backup power is performed on all poles. The external AC power source (e.g., the public grid) is properly and safely disconnected on all poles. Switching back to the external AC power source is carried out with a delay of at least 1 minute after the main power supply is restored.

Generators with internal ATS are equipped with a built-in transfer switch, which operates differently depending on the model and version of the generator.

The KS 4000iES ATS is equipped with $2 \times 230 \text{ V } 16 \text{ A}$ output sockets. The left socket is active only while the generator is running and is used in ATS mode when the main power source does not need to be switched through, but only monitored (e.g., home backup power supply via an external automatic transfer switch). The right socket is powered through the transfer switch and is switched between the MAINS INPUT and the generator's inverter module. The right socket can be used, for example, for a single electrical consumer that can also operate in an IT system without a grounded neutral conductor while the generator is running.

The KS 6000iES ATS is equipped with a CEE 230 V 32 A output socket, which may operate differently depending on the generator version.

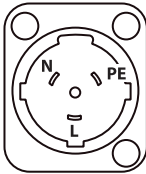
The output socket of the KS 6000iES ATS Version 1 is switched between the MAINS INPUT and the generator's inverter module. This version can be used, for example, for electrical consumers that can also operate in an IT system without a grounded neutral conductor while the generator is running.

The output socket of the KS 6000iES ATS Version 2 is active only while the generator is running and is used in ATS mode when the main power source does not need to be switched through, but only monitored (e.g., home backup power supply via an external automatic transfer switch).

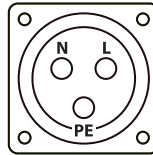
CONNECTION OF AN EXTERNAL AC POWER SOURCE

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The external AC power source (main power supply) is connected to the MAINS INPUT. The connection plug is supplied with the generator.



Powercon pin assignment
(KS 4000iES or
KS 6000iES ATS Version 2):



WEIPU SA28 pin assignment
(KS 6000iES ATS Version 1):



IMPORTANT!



Inverter generators of the KS 4000iES ATS and KS 6000iES ATS series are equipped with a built-in battery charging module, which is active while the generator is running or when an external AC power source is connected. The generator's lithium starter battery can alternatively be charged using a charger for 12 V lead-acid batteries in motorcycle mode, with a voltage of up to 14–14.5 V and a charging current of up to 2 A.

MAINTENANCE

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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.
- If you missed the maintenance time, perform it as soon as possible to save the generator engine.

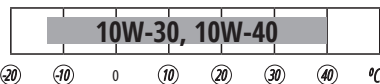
**IMPORTANT!**

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

RECOMMENDED OILS

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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. Further details can be found in the full version of the manual on our website.

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. Remove the cover of generator (fig. 5).
4. Place a drain oil holding tank under the engine.



Fig. 5

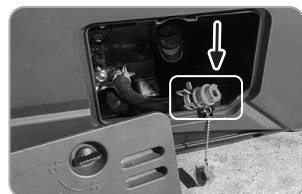


Fig. 6

5. Turn the drain cap, located in the engine under the oil-depth gage cap (fig. 6).
6. Wait till the oil drains.
7. Replace the drain cap and tighten it well.
8. Close the maintenance cover (fig. 5).

**NOTE**

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

AIR FILTER TECHNICAL MAINTENANCE

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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 warmsoapy 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

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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.

DAMPER AND FLAME ARRESTER MAINTENANCE

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The engine and damper will get very hot after the generator has been started. Do not touch the engine or damper 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 flame arrester of the damper. Descale the screen and flame arrester of the damper with a wire brush. Inspect the screen and flame arrester of the damper. Replace them if they are damaged. Replace the flame arrester. Replace the screen and cover of the damper. Replace the cover and tighten the screws.

**IMPORTANT!**

Match the protrusion of the flame arrester to the hole in the pipe damper.

FUEL FILTER

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**IMPORTANT!****Never use gasoline while smoking or in the immediate vicinity of an open flame.**

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.

BATTERY MAINTENANCE

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We recommend checking the charge level of the lithium starter battery installed in generators with an electric starter every 3 months. The battery can be charged either via the internal charging module (by applying 230 V to the MAINS INPUT or by running the generator for 30–60 minutes) or using an external charger for 12 V batteries in motorcycle mode (charging current up to 2 A).

STORAGE

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Storage room has to be dry and free from dust deposits. Storage room also has to be locked away from children and animals. It is recommended to store and use the generator at temperature of -20°C to +40°C. Avoid direct sunlight, rain on the generator.

Potential faults and troubleshooting methods, as well as average device capacities can be found in the full version of the manual.

BATTERY AND GENERATOR DISPOSAL

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To prevent environment damage generator and battery should be separated from ordinary waste. Please recycle them in the safest way, passing it to special place for disposal.

WARRANTY SERVICE TERMS

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The international manufacturer warranty is 2 year or 1000 hours (whichever comes first). 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.



EC Declaration of Conformity

Nr. 270

The following products have been tested by us with the listed standards and found in compliance with the European Community Machinery Directive 2006/42/EC, Electromagnetic compatibility Directive (EMC) 2014/30/EC, Noise Directive 2000/14/EC.

Manufacturer: DIMAX INTERNATIONAL GmbH
Address: Flinger Broich 203, 40235 Duesseldorf, Germany
Product: Inverter generators "Könnert & Söhne"
Type / Model: KS 4000iES ATS, KS 6000iES ATS

The statement is based on a single evaluation of above mentioned products. It does not imply an assessment of the whole production and does not permit the use of the test lab. logo. The manufacturer should ensure that all product in series production are in conformity with the product sample detailed in this report. The applicant should hold the whole technical report at disposal of the competent all the right.

Applied EC Directives: 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 240i 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. Date of issue 30/10/2018

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

For model KS 4000iES ATS Noise guaranteed Lwa= 95 dB (A).
For model KS 6000iES ATS Noise guaranteed 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) 9116555225, Fax: +49 (0) 9116555226, Email: service@de.tuv.com, Website: www.tuv.com/safety
Notified Body number: 0197



Issued Date: 2026-04-27
Place of issue: Duesseldorf
Director: Fomin P.

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

P. Fomin

We DIMAX INTERNATIONAL GmbH hereby declare that specified above conforms covering European Parliament and Council Directives, 2006/42/EC of 17 May 2006 Machinery Directive, Electromagnetic compatibility Directive (EMC) 2014/30/EC of 26 February 2014, Noise Directive 2000/14/EC of 8 May 2000. The CE mark above can be used under the responsibility of manufacturer. After completion of an EC declaration of Conformity and compliance with all relevant EC directives.

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