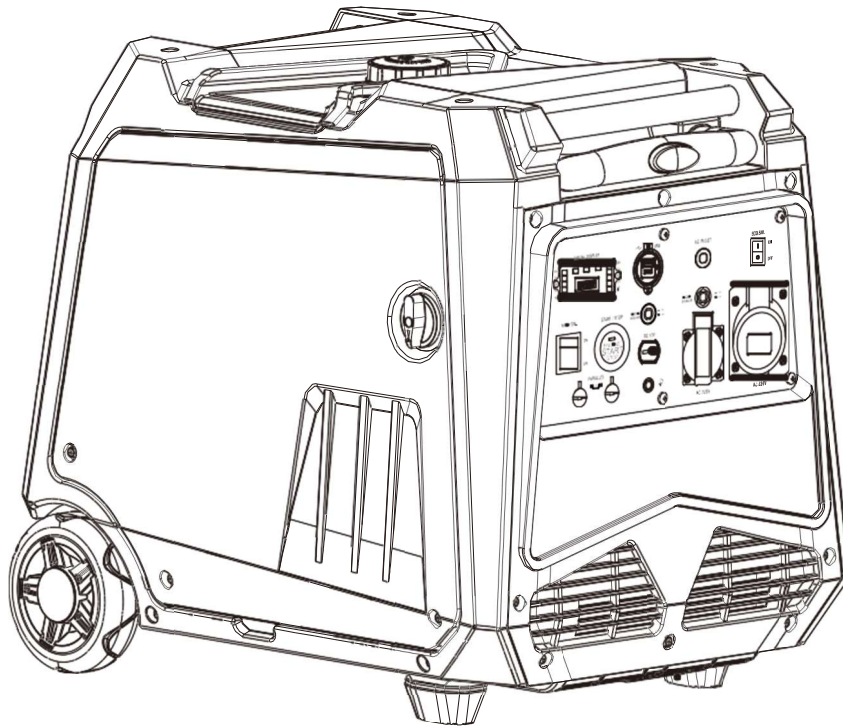




KERNLOCHBOHRER[®]
PROFESSIONAL POWER TOOLS



Operating instructions

Inverter power generator Si6000E

BA-09-000001-02-EN

Scope of application

These Operating instructions only apply to the machine labelled on the cover sheet.

Check the model against the machine's rating plate.

Original instructions / translation of the original instructions

In accordance with the EU Machinery Directive, the German copy of these Operating instructions is the original instructions.

Copies in other languages are translations of the original instructions.

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Subject to errors and technical changes.

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The function of the machine is limited to the functions described in the associated technical documentation.

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1 Information and support

1.1 Thanks to the buyer

Thank you for purchasing a machine from Kernlochbohrer GmbH.

Please read the Operating instructions carefully and observe the safety instructions. By following the Operating instructions, you will be able to fully utilise the outstanding performance of our product.

If you have any questions regarding the operation of the machine, please contact Kernlochbohrer GmbH directly. We are available to answer your questions at any time.

1.2 Using the Operating instructions

The machine is intended for professional use and may only be operated by trained personnel. Strictly adhere to the instructions in the Operating instructions.

Our company declines all responsibility in the event of non-compliance with the Operating instructions, which may result in injury or damage to property.

The Operating instructions are indispensable for using the machine. The Operating instructions must therefore always be kept close to the machine and be accessible to the intended personnel at all times.

In addition to the Operating instructions, the generally applicable and local regulations for accident prevention and environmental protection must be provided; compliance with these regulations must be checked regularly.

1.3 Changes

Kernlochbohrer GmbH reserves the right to change the design and appearance of the products and their Operating instructions. Future changes to the Operating instructions will be made without prior notice.

1.4 Explanation of symbols



The symbol draws your attention to dangers that you must be aware of when carrying out the following work in order to avoid injury to yourself, other persons or damage to property.



Cross-reference to another point in the Operating instructions.



Prerequisite for an action.



Action to be performed.



Behaviour of the machine that is to be expected as a result of the preceding action.



Background information or reference to special features.

1.5 Guarantee

In accordance with Kernlochbohrer GmbH's general terms and conditions of delivery, a warranty period of 12 months applies to material defects in business transactions with companies (proof by invoice or delivery note).

Damage caused by natural wear and tear, overloading or improper handling is excluded.

Damage caused by material or manufacturer defects will be rectified free of charge by repair or replacement. Complaints can only be recognised if the device is sent to Kernlochbohrer GmbH undismantled.

Wear parts are excluded from the warranty.

1.6 Environmental protection

1.6.1 Disposal of the packaging

The packaging is made from recyclable materials. They must be disposed of in accordance with their labelling and municipal guidelines.

1.6.2 Disposal of the product

Follow national regulations on environmentally friendly disposal and recycling of used machines and accessories.

For EU countries only:

Do not dispose of the machine with household waste! In accordance with European Directive 2012/19/EU on waste electrical and electronic equipment and its transposition into national law, used power tools must be collected separately and recycled in an environmentally friendly manner.

1.7 Service

Precise information and specific questions allow faults to be rectified quickly, make it easier to order spare parts and prevent incorrect deliveries.

Before contacting the service, please collect the following data first.

The model designation must be stated in all enquiries and orders. This information can be found on the rating plate of the machine.

Further information is required in the event of faults:

Type and extent of the disorder, accompanying circumstances, suspected cause.

Please contact us to order spare parts. We will then send you the relevant documents.

- ① You are welcome to send us photos when ordering spare parts or videos in the event of faults.

Contact details:

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2 Security

2.1 General information

The power generator was built according to the state of the art and in compliance with the applicable laws, standards and safety regulations. Nevertheless, the use of the power generator may pose a risk to the user or third parties and cause damage to the power generator and other property.

The power generator may only be used if it is in perfect condition and in accordance with its intended use and in a safe and hazard-conscious manner.

In the event of damage or faults on the power generator, take the power generator out of operation immediately, secure it against use and repair it or arrange for it to be repaired.

2.2 Intended use

The power generator is designed to generate electrical energy for feeding into a mobile distribution system.

Under certain conditions, the power generator may also be used as an emergency power supply for a building installation. The connection of the power generator to a building installation may only be carried out by a qualified electrician.

The power generator may only be used within the limits of its technical data. This information, for example power specifications and ambient conditions, can be found in the "Technical data" chapter.

Any other use or use beyond this is considered improper use - risk of accident! Kernlochbohrer GmbH is not liable for any resulting damage. The risk is borne solely by the operator.

Intended use also includes observing the operating instructions and complying with the prescribed maintenance intervals.

2.3 Warning and safety instructions

The safety of yourself and others is very important. Please read the safety warnings in the Operating instructions and the stickers on the generator carefully.

A warning can draw your attention to potential dangers that could harm you and others. Each warning is preceded by one of the four signal words "DANGER", "WARNING", "CAUTION" or "ATTENTION":



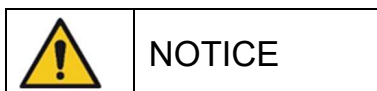
Instructions with this signal word warn of an imminent danger that will result in death or serious injury if you do not follow the instructions. Follow the instructions.



Instructions with this signal word warn of a possible danger that could result in death or serious injury if you do not follow the instructions. Follow the instructions.



Notes with this signal word warn of a possible danger that could result in moderate or minor physical injury or damage to property if you do not observe the note. Follow the instructions.



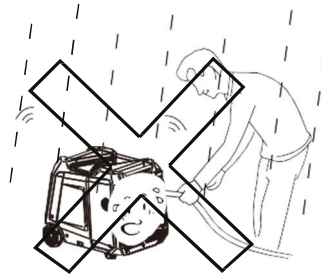
Instructions with this signal word warn of a danger that will result in material damage if you do not follow the instructions. Follow the instructions.

2.4 General safety instructions for the power generator

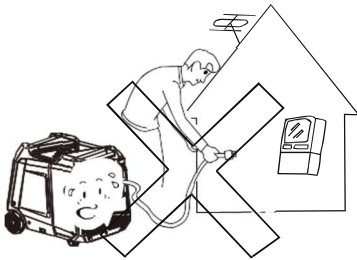
Before putting the generating set into operation, you should understand the Operating instructions and familiarise yourself with the safe operation of the generating set in order to avoid accidents.



Do not use indoors!



Do not use in a damp environment!



Do not connect the generating set directly to a domestic installation!



Do not smoke when refuelling and keep ignition sources away!



Do not spill petrol when refuelling!



Before refuelling: Switch off the generator and allow it to cool down!

2.5 Safety regulations for the operator

2.5.1 Organisational safety measures

The Operating instructions must always be available for the operating and maintenance personnel. It must therefore always be kept at the place of use of the power generator.

The regulations on accident prevention and environmental protection applicable at the place of use of the power generator must also be available. The operator of the power generator must regularly check that they are complied with.

The use of sound-emitting machines may be limited in time by national or local regulations.

Do not use the power generator in damp environments or in the rain.

The power generator must not be operated in potentially explosive atmospheres or in the vicinity of flammable liquids, gases or combustible dust.

All safety and danger notices on the power generator must be legible and must not be removed.

The protective equipment required to operate the power generator must be provided by the operator. The operator must ensure that the protective equipment is used properly by the personnel.

Operating and auxiliary materials, such as lubricants or cleaning agents, must be selected in such a way that the limit values for hazardous substances applicable at the place of use are complied with. The regulations for environmental protection and disposal applicable at the place of use must be complied with.

2.5.2 Changes to the s power generator

The operator may not make any modifications to the power generator without written authorisation from Kernlochbohrer GmbH. If the operator carries out modifications without authorisation, the warranty becomes void. Kernlochbohrer GmbH is not liable for damage caused by unauthorised modifications.

2.5.3 Spare parts

Spare parts must comply with the properties defined by Kernlochbohrer GmbH. This is always guaranteed for spare parts supplied by Kernlochbohrer GmbH. Kernlochbohrer GmbH is not liable for damage caused by the use of unsuitable spare parts.

2.5.4 Personnel

All persons who are authorised to commission, operate and maintain the generator must have read and understood the Operating instructions beforehand.

The power generator may only be operated by persons who have been adequately instructed beforehand.

The power generator may only be maintained by persons who have completed the appropriate specialised training for this activity.

Minors are not permitted to work with the power generator. Young people over the age of 16 who are trained under supervision are exempt from this regulation.

2.6 Safety regulations for staff

2.6.1 Safe behaviour

All persons authorised to commission, operate and maintain the generator must have read and understood the Operating instructions beforehand.

The power generator may only be operated by persons who have been adequately instructed beforehand.

Maintenance of the machine may only be carried out by persons who have completed specialised training appropriate to this activity.

Minors are not permitted to work with the power generator. Young people over the age of 16 who are trained under supervision are exempt from this regulation.

Any work on and with the power generator that impairs safety must be avoided.

All safety and danger notices on the power generator must be legible and must not be removed.

When using the power generator, the engine produces exhaust fumes that are hazardous to health and can cause symptoms of poisoning. The power generator may therefore only be operated outdoors or in well-ventilated rooms. If symptoms of poisoning occur (feeling unwell, loss of consciousness, tiredness, drowsiness), switch off the generator immediately, find an area with fresh air to breathe and then consult a doctor.

2.6.2 Safe operation

Operating the power generator requires the full concentration and ability of the personnel. Persons who are overtired, unable to concentrate or under the influence of alcohol, drugs or medication must not work on or with the power generator.

Persons who are not directly required to operate the power generator must maintain a sufficient safety distance from the device.

Before using the power generator, check that it is in perfect condition. If the power generator is damaged, it must not be used. Then secure the power generator against use and repair it or arrange for it to be repaired.

In order not to jeopardise the functionality and safety of the power generator, covers or other components of the power generator must not be removed.

Before starting or starting up the power generator, ensure that persons are not endangered by the starting power generator.

Operating elements must not be operated thoughtlessly or wilfully. This could result in personal injury or damage to the appliance.

When using the generator, keep a safe distance from the exhaust and do not reach into the exhaust jet.

Keep a distance of at least 2 metres between highly flammable objects and the exhaust.

The power generator must not be left unattended during use.

Air inlet and outlet openings must not be covered during use.

Do not use the generator in damp environments or in the rain, and never immerse it in water.

The power generator must be cleaned regularly to prevent dirt from accumulating. All operating elements and handles must be kept clean, dry and free of grease.

If the power generator is not in use, it must be switched off in such a way that nobody is endangered. Secure the power generator against unauthorised use.

2.6.3 Protective equipment

If the noise emissions generated when using the power generator exceed the limits applicable to this workplace, suitable hearing protection must be worn.

Persons carrying out maintenance work on the power generator are obliged to wear the appropriate protective equipment required for this work.

2.7 Safety during maintenance

2.7.1 General information

The power generator may only be maintained by persons who have completed the appropriate specialised training for this activity.

The maintenance activities and intervals specified in the Operating instructions must be observed.

Workshop equipment appropriate to the type of work is required to carry out maintenance activities.

The following safety precautions must be taken before starting maintenance work:

- Position the power generator so that the access point is easily accessible.
- Set the power generator to the appropriate operating status.

After completion of maintenance activities:

- Assemble the generator completely.
- If operating elements or safety devices have been removed, they must be refitted and their function checked.

Persons carrying out maintenance work on the power generator are obliged to wear the appropriate protective equipment required for this work.

2.7.2 Cleaning

Do not use any corrosive, harmful or environmentally damaging substances to clean the power generator. Dispose of cleaning agents in an environmentally friendly manner.

Under no circumstances may high-pressure cleaners, water jets or compressed air be used to clean the power generator.

2.8 Safety instructions for connecting consumers



- Before connecting electrical consumers to the power generator, check that the electrical devices, including the cables and plugs, are undamaged and in good condition.
- It must be ensured that the sum of the outputs of all devices driven by the power generator is within the rated output of the power generator.
- It must be ensured that the load current is within the rated current range of the mains socket.
- Direct and alternating current can be drawn simultaneously. However, the total load must be within the rated load range of the power generator, otherwise the power generator may be damaged.
- If the total output exceeds the rated output, the "OVERLOAD" overload indicator lights up on the generator control panel.

3 Technical data

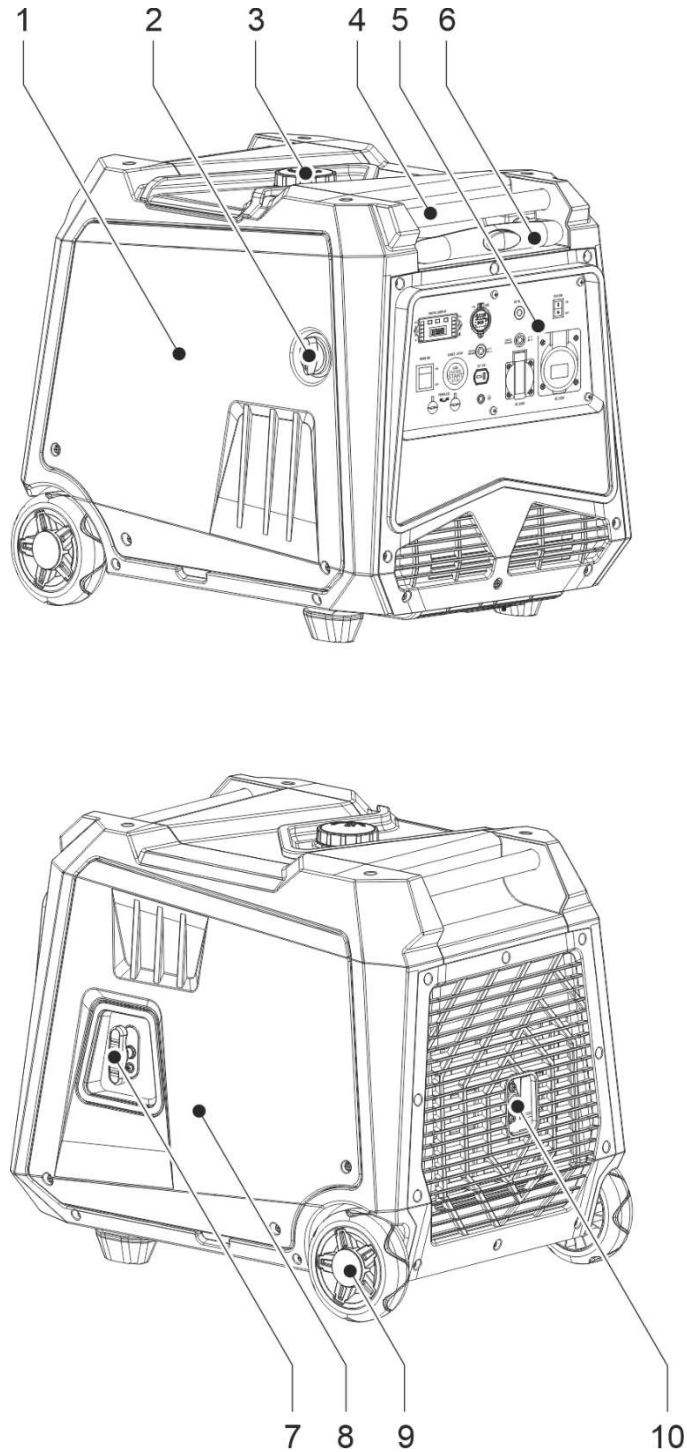
General	
Model	Inverter power generator Si6000E
Article number	9010
Dimensions	615 x 480 x 550 mm
Net weight	52 kg
Degree of protection	IP23M
Permissible ambient temperature	-5 to +40 °C
Permissible relative humidity	Maximum 85 %
Sound power level L_{WA}	97 dB(A)

Generator	
COP power	5.7 kW
Maximum power	6 kW
Nominal voltage	230 V
Nominal frequency	50 Hz
Power factor	1
Number of phases	1
Alternating current output	2x 230 V / 16 A
Direct current output	12 V / 8.3 A
USB output	USB 3.0 (5 V / 0.9 A) + USB-C (5 V / 3 A)
Type of construction	Permanent magnet
Voltage regulation	Controller control
Frequency control	Controller control

Motor	
Model	180F/P-2
Combustion principle	4-stroke / OHV
Number of cylinders	1
Cooling	Air
Starter	Cable starter or electric starter
Displacement	312 cm ³
Maximum power	7 kW / 9.5 hp at 3600 rpm
Fuel	Unleaded petrol (at least 92 RON)
Fuel tank capacity	12 litres [not included]
Fuel consumption	3.46 litres/h at 100% load
Engine oil	SAE 10W-30
Engine oil tank capacity	0.8 litres [not included]

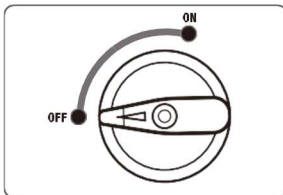
4 Machine description

4.1 Machine components



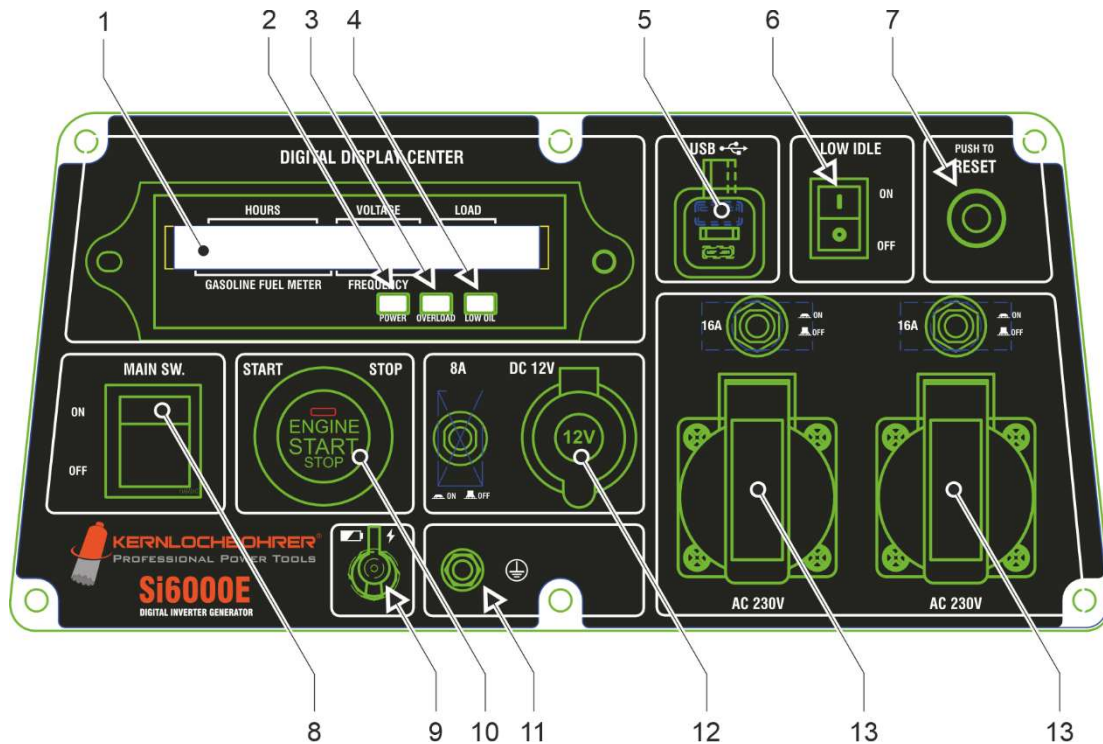
- 1 Left-hand maintenance cover
- 2 Fuel tap
- 3 Fuel filler cap
- 4 Carrying handle
- 5 Control panel
- 6 Extendable push handle
- 7 Draw-wire starter
- 8 Right-hand maintenance cover
- 9 Wheel (2 pieces)
- 10 Exhaust

4.2 Fuel tap



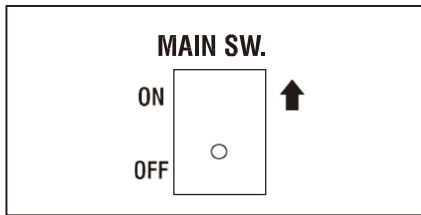
The fuel tap releases or interrupts the flow of fuel from the fuel tank to the engine.

4.3 Control panel



- 1 Digital display: Operating hours | Voltage | Load | Fuel tank level | Frequency
- 2 AC power indicator "POWER"
- 3 "OVERLOAD" overload indicator
- 4 Low oil indicator "LOW OIL"
- 5 USB sockets
- 6 "LOW IDLE" energy-saving switch
- 7 "RESET" reset button
- 8 Main switch "MAIN SW."
- 9 Charging connection for battery
- 10 Start/stop button "ENGINE START STOP"
- 11 Earthing connection
- 12 Direct current output (12 V / 8 A) with socket and switch
- 13 AC output (230 V / 16 A) with socket outlet and switch

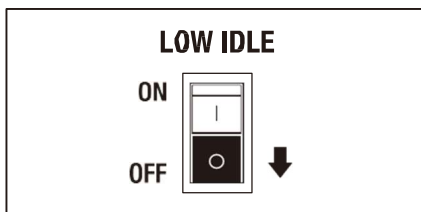
4.3.1 Main switch



ON When the generator engine is running and the main switch "MAIN SW." is set to "ON", the generator is producing electricity.

OFF If the main switch is set to "OFF", no current is generated.

4.3.2 Energy saving switch

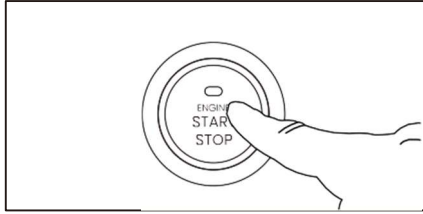


ON When the energy-saving switch is set to "ON", the generator regulates the engine speed depending on the connected load, resulting in very good fuel consumption and a low noise level.

OFF If the energy-saving switch is set to "OFF", the generator motor runs at nominal speed, regardless of whether it is connected to a load.

① For appliances such as air compressors or submersible pumps, the energy-saving switch must be set to "OFF", as these require a high inrush current.

4.3.3 Start/stop button



The start/stop button is used to start or stop the generator engine.

4.3.4 Reset button

The "RESET " button is used to reset the power generator after an overload has been detected.

4.3.5 Alternating current display

The "POWER" AC indicator lights up (green) when the engine has been started and the generating set is operating normally.

4.3.6 Low oil indicator

If the oil level in the engine housing falls below the safety limit, the oil protection system automatically switches off the engine and the low oil indicator "LOW OIL" lights up (red). The engine cannot be restarted until the minimum oil level has been reached again by topping up the oil.

4.3.7 Overload display

If the "OVERLOAD" overload indicator lights up (red), the power generator has detected that the power of the connected electrical devices has become too high, resulting in overheating of the frequency inverter or an increase in the AC voltage.

At this moment, the AC protection operates and stops power generation to protect the generator and the connected electrical devices. The AC indicator (green) is off and the overload indicator (red) lights up, but the motor continues to run.

If the overload indicator lights up and the power generator is not generating any power, take the following countermeasures:

- Switch off connected electrical devices and switch off the power generator.
- Reduce the total power of the connected electrical devices to the rated power range.
- Check whether the cooling air inlet is blocked by foreign objects and whether the associated control components are faulty. If there is a problem, carry out the repair or have it carried out.
- Press the "RESET " button.
- After checking, restart the engine.

① When using electrical devices with a high starting current (e.g. compressors, submersible pumps, etc.), the overload indicator may light up for a few seconds at the beginning, but this is not a fault as described above.

4.4 Remote control



- | | |
|-------|--|
| START | Press the "START" button to start the generator engine. |
| STOP | Press the "STOP" button to switch off the generator motor. |

4.5 Scope of delivery

The scope of delivery includes the following components:

- Inverter power generator
- Spark plug spanner
- Remote control
- Earthing kit, consisting of earthing rod with earthing cable (2 m)
- Operating instructions

- ① The engine oil (0.8 litres | SAE 10W-30) required for commissioning the generator is not included in the scope of delivery and must be purchased separately.
- ① Kernlochbohrer GmbH offers an extensive range of machines, tools and accessories. The webshop <http://www.kernlochbohrer.com> is available for information and ordering.
- ① A battery charger suitable for charging the generator battery can also be purchased from the webshop <http://www.kernlochbohrer.com>.

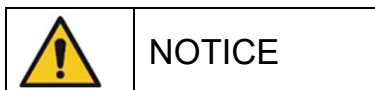
5 Operation

5.1 Preparations

5.1.1 Fuel

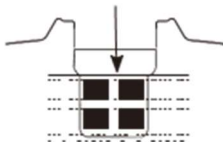


- Fuel is highly flammable and toxic. Please read the safety instructions for handling fuel carefully before refuelling.
- Do not fill up the tank too full, otherwise the fuel will run out after the tank has warmed up.
- After refuelling, make sure that the tank cap is firmly tightened.



- Dry off petrol residues with a clean, soft cloth in good time after refuelling to prevent damage to the plastic housing.
- Unleaded petrol must be used, as leaded petrol can severely damage the internal parts of the generator.
- Remove the fuel filler cap and fill with petrol up to the red horizontal level indicator.

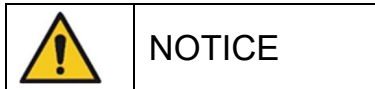
Maximum fill level



- Fuel tank capacity: 12 litres

5.1.2 Engine oil

- ① The engine oil (0.8 litres | SAE 10W-30) required for commissioning the power generator is not included in the scope of delivery and must be purchased separately.



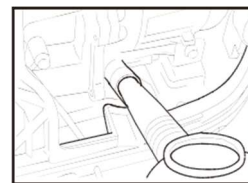
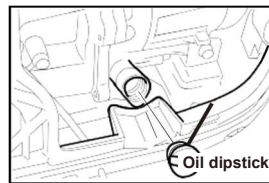
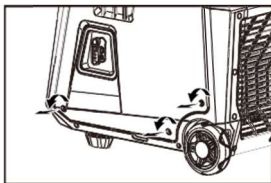
No engine oil is filled when the power generator is delivered. Do not operate the power generator without having filled it with sufficient engine oil.

Fuel:

Type: Engine oil SAE 10W-30

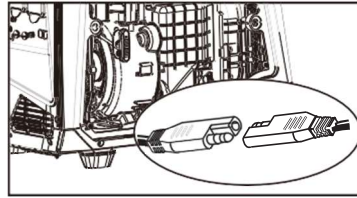
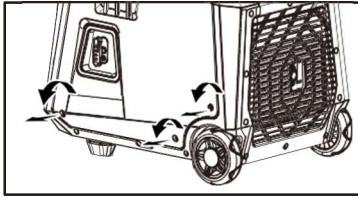
Quantity: 0.8 litre

Procedure:



- ☒ Place the power generator on a horizontal, level surface.
- ☒ Undo the screw and remove the right-hand maintenance cover.
- ☒ Unscrew the oil dipstick.
- ☒ Fill with 0.8 litres of SAE 10W/30 engine oil.
- ☒ Insert the oil dipstick, but do not screw it in.
- ☒ Pull out the oil dipstick and check the oil level on the oil dipstick. Correct the oil level if necessary.
- ☒ Screw in the oil dipstick.
- ☒ Fit the maintenance cover and tighten the screw.

5.1.3 Battery



Procedure:

- ☒ Undo the screw and remove the right-hand maintenance cover.
 - ☒ A quick-connect plug is pre-installed on the battery:
 - ☒ Remove the cable ties securing the plugs.
 - ☒ Align the plug halves with each other using the colours.
 - ☒ Join the connector halves together and press them firmly together.
 - ☒ Fit the maintenance cover and tighten the screw.
- ① The generator is equipped with a battery charging function. As soon as the engine is running, the battery is slowly recharged by a small current

5.1.4 Pair remote control with power generator

- ☒ Set the generator's main switch 'MAIN SW.' to 'ON'.
 - ☒ Press and hold the 'ENGINE START STOP' button on the generator for longer than 5 seconds until the red indicator on the button lights up.
 - ☒ Release the 'ENGINE START STOP' button on the power generator..
 - ☒ Press any button on the remote control.
 - ☒ The red indicator light on the generator's 'ENGINE START STOP' button flashes several times and then goes out.
- ↪ Remote control of the power generator was successfully coupled.

5.1.5 Earthing



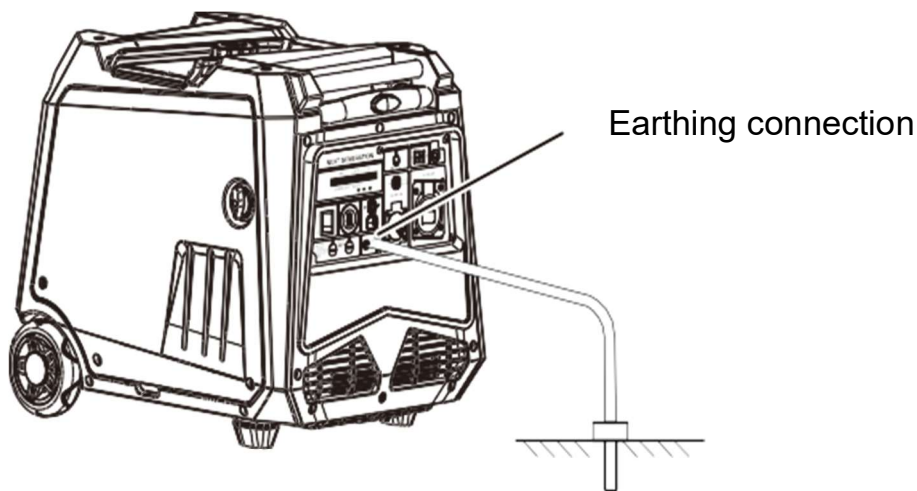
To prevent injury to persons or damage to the generator due to electric shock or improper electrical use, the generator must be earthed.

Auxiliary means:

Grounding kit (included)

Procedure:

- ☒ Drive the earthing rod into the ground and connect it securely with the earthing cable.
- ☒ Connect the earth cable to the earth terminal on the generator control panel.



5.1.6 Inspection before use



Even when the generating set is not in operation, important components can suddenly fail. If one of the following components is not working properly, please check and repair it carefully before putting the generating set into operation.

- ① The condition of the power generator should be checked before each use.

Fuel:

- Check the fuel level in the power generator's fuel tank and top up if necessary.

Engine oil:

- Check the oil level in the generator engine and top up the engine oil if necessary.
- Check the engine for leaking oil. If oil is leaking, carry out or arrange for repair.

Battery:

- Check the charge status of the battery.

5.2 Switching on the generator

Procedure:


- Inspection carried out before use.
- Power generator set up on a firm, level and horizontal surface.
- Grounding of the power generator carried out.
- Disconnect all electrical consumers from the power generator. Never start or stop the power generator with electrical consumers connected or switched on.
- Set the fuel tap to "ON".
- Set the "LOW IDLE" energy-saving switch to "OFF".
- Set the main switch "MAIN SW." to "ON".
- There are three different ways to start the generator engine:
 - Cable pull start:

Hold the generator by the carrying handle so that the generator does not tip over when starting.

Grasp the handle of the pull starter and pull slowly until you feel increased resistance.

Then pull the handle of the pull starter quickly.
 - Start/stop button:

Press the "ENGINE START STOP" button for 1 to 3 seconds and then release it again.
 - Remote control:

Press the "START" button on the remote control and then release it again.
-  The generator engine starts.
- Connect electrical consumers to the power generator and switch on the socket.

- ☒ Switch on electrical consumers.

If the generator is to supply several electrical consumers or devices, start from large to small according to the power of the consumers or devices.

- ☒ Check the "OVERLOAD" overload indicator on the generator control panel. If this lights up, the power generator is overloaded and the load must be reduced.

5.3 Use of the power generator

Application conditions:

Temperature: -5°C to +40°C

Humidity < 85%

Installation altitude: Below 1500 m above sea level (
from 1000 m above sea level with reduced output)

Standard conditions:

Temperature: +25°C

Humidity 30%

Air pressure: 100 kPa = 1000 mbar

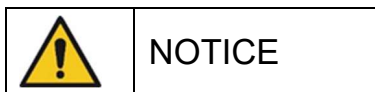
Changes in performance when deviating from the standard conditions:

- Every 5°C increase in the ambient temperature reduces the output of the generator by around 2%.
- Every 30% increase in relative humidity reduces the output of the generator by around 1.5%.
- Each increase in the installation altitude by 300 metres reduces the output of the generator by around 4.5%.

5.4 Switching off the power generator

Procedure:

- ☒ Switch off all electrical consumers and disconnect them from the power generator. Never start or stop the power generator with electrical consumers connected or switched on.
- ☒ There are two different ways to stop the generator engine:
 - ☒ Start/stop button:
Press the "ENGINE START STOP" button for 1 second and then release it again.
 - ☒ Remote control:
Press the "STOP" button on the remote control for 1 second and then release it again.
- ↳ The generator motor stops.
- ☒ Set the main switch "MAIN SW." to "OFF".
- ☒ Set the fuel tap to "OFF".



The procedures described above are the only safe procedures for switching off the generating set!

If the generating set is switched off directly with the main switch "MAIN SW.", a deflagration may occur in the engine silencer!

If the battery is not connected or is discharged and the generating set is switched off directly with the main switch "MAIN SW.", it may be difficult or impossible to restart the cold engine.

5.5 Charging the battery

The battery storage time is generally around 6 months. If the generator is not used for a longer period of time, the battery will discharge.

If the battery is damaged or cannot be charged, the battery must be replaced.

The battery is automatically charged while the generator is in operation (after starting with the pull-wire starter).

However, the generator battery can also be charged using an external battery charger.

To do this, connect the battery charger to the charging connection on the control panel.

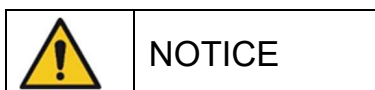
- ① A suitable battery charger can be purchased via the webshop <http://www.kernlochbohrer.com>.



Do not switch on the generating set while it is being charged by an external battery charger!

No battery charger may be connected to the switched-on generator!

Keep the battery away from sunlight and heat sources. Store in a cool and dry place.



Correct charging and discharging of lithium-ion batteries can extend the service life of the battery. Maintaining a charge level of 10 % to 90 % is beneficial for protecting the battery:

- Charging temperature: 0 - 45°C
- Do not charge the battery for longer than 30 to 40 minutes.
- Overcharging lithium-ion batteries during the charging process must be avoided at all costs. Overcharging lithium-ion batteries can lead to serious damage to the battery performance and even cause the battery to explode.

5.6 Connection of the power generator for emergency power supply

If the power generator is to be used as an emergency power supply for a building installation, the connection must be carried out by a qualified electrician.

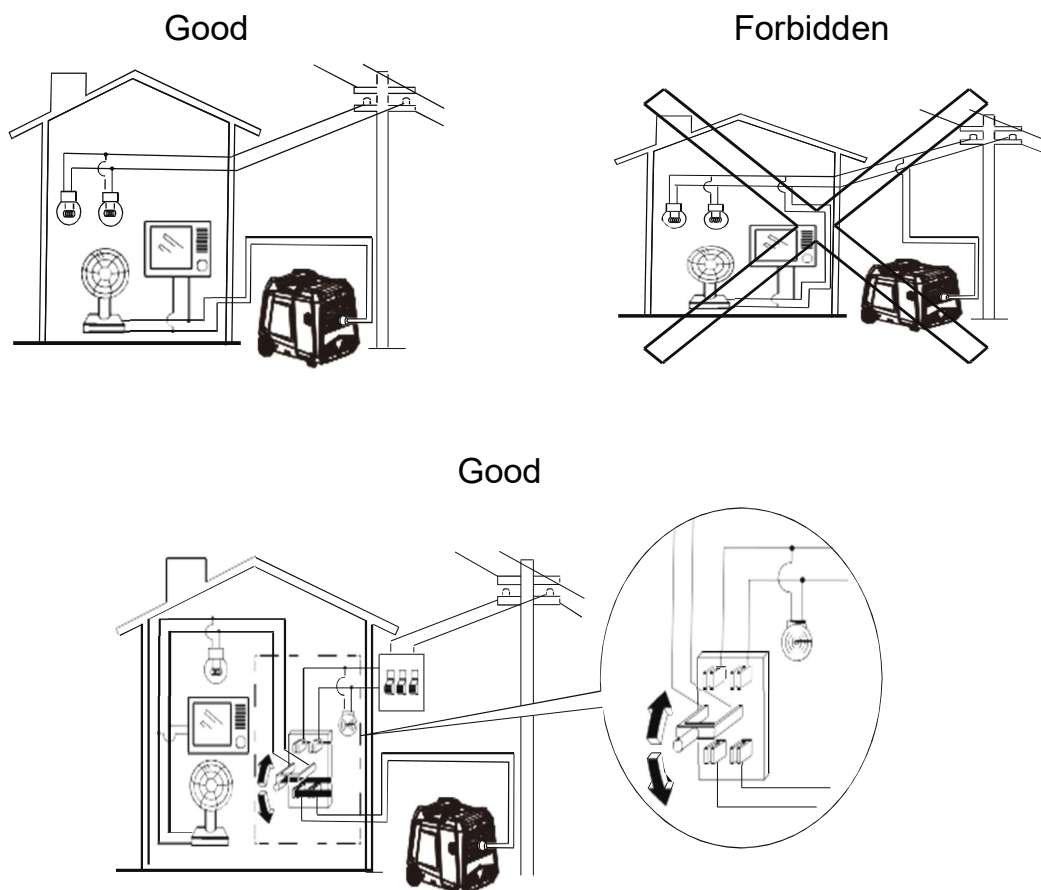
After connection, carefully check that the emergency power supply is safe and reliable. An improper electrical connection can lead to damage to the power generator, burns to persons or fires.

Do not connect the power generator directly to a building installation.

Observe the following maximum lengths when using extension cables:

- 60 m with a wire cross-sectional area of 1.5 mm².
- 100 m with a wire cross-sectional area of 2.5 mm².

The extension cable must be protected by a layer of tough and elastic rubber (IEC25) or other substitute materials.



5.7 Transport and storage of the power generator

5.7.1 Transport

When transporting the power generator, it must be ensured that no fuel is spilt. The fuel tank must therefore not be completely full. Ensure that the power generator is not exposed to direct sunlight.

The power generator must be switched off during transport.

The power generator can be carried by the carrying handle or pushed on the wheels using the extendable push handle.

Do not touch hot machine parts, especially the silencer - risk of burns!

When transporting in vehicles: Secure the machine against falling over, damage and fuel leaks. Do not transport for long periods on uneven roads.

5.7.2 Storage

If the generating set is to be stored for a longer period of time, some preparations must be made beforehand.

Fuel:

Type: Engine oil SAE 10W-30

Quantity: 0.8 litre

Auxiliary means:

- Petrol-resistant container to hold the fuel from the fuel tank
- Pumping device for fuel
- Petrol-resistant container for collecting the residual fuel from the carburettor

Procedure:

- Power generator switched off and cooled down.
- Place the power generator on a horizontal, level surface.
- Set the fuel tap to "OFF".
- Remove the fuel tank cap from the fuel tank.
- Remove the fuel strainer from the fuel tank.
- Pump fuel from the fuel tank into a suitable container.
- Fit the fuel tank cap.
- Start the generator to burn the fuel in the carburettor. Do not connect any electrical consumers!
 - ↳ The motor runs for a certain time and then switches itself off.
- Undo the screw and remove the left-hand maintenance cover.
- Have a container ready. Remove the fuel drain plug from the carburettor and drain the fuel into the container.
- Fit the fuel drain plug.
- Fit the left-hand maintenance cover.

- ☒ Undo the screw and remove the right-hand maintenance cover.
- ☒ Unscrew the oil dipstick.
- ☒ Remove the cap from the oil drain line.
- ☒ Place the container underneath the generator and drain the engine oil.
- ☒ Fit the cap on the oil drain line.
- ☒ Fill with 0.8 litres of SAE 10W/30 engine oil.
- ☒ Insert the oil dipstick, but do not screw it in.
- ☒ Pull out the oil dipstick and check the oil level on the oil dipstick. Correct the oil level if necessary.
- ☒ Screw in the oil dipstick.
- ☒ Fit the right-hand maintenance cover.
- ☒ Grip the handle of the pull starter and pull carefully until you feel a stronger resistance. This closes the intake valve and exhaust valve of the engine.
- ☒ Store the power generator in a dry, cool place protected from moisture and direct sunlight.
Secure the machine against unauthorised use.

6 Maintenance

6.1 Notes on proper maintenance

Insufficient or improper maintenance can cause malfunctions and impair the operational safety and service life of the machine. Regular inspection and maintenance is therefore essential. We recommend that maintenance work is only carried out by trained personnel.

The contractually agreed warranty does not release the operator of the machine from the obligation to maintain the machine in accordance with the manufacturer's instructions from the time of commissioning. Kernlochbohrer GmbH is not liable for damage caused by a lack of maintenance.

6.2 Maintenance and inspection plan

The interval specifications refer to normal operating conditions. In more difficult conditions (heavy dust accumulation, etc.) and longer daily working times, the specified intervals must be shortened accordingly by the operator.

Only use the maintenance and inspection schedule as a guide! Be sure to follow the instructions in chapter 6.3; they describe in detail how to carry out the individual tasks correctly and safely.

Notes on the interval:

Maintenance must be carried out after a certain period of time (real time) or number of operating hours, whichever comes first.

The months refer to real time. The hours (unit h) refer to the operating hours of the power generator.

Double entries mean: This maintenance activity is due after operating time A or real time B, whichever comes first.

Interval		Before use	First time: 20 h or 1 month	50 h or 3 months	100 h or 12 months
Element					
Engine oil	Fill level	X			
Engine oil	Change		X	X ①	
Air filter	Inspection	X			
Air filter	Cleaning			X ②	
Air filter	Change				X ②
Settling cup	Cleaning				X
Spark plug	Inspection				X
Spark ar- rester	Cleaning			X	
Energy saving mode	Inspection *				X
Valve clearance	Inspection *				X
Fuel tank, fuel filter and fuel line	Inspection *				X
Cylinder head and piston	Remove carbon deposits *		250 h		

Explanations:

- * These maintenance activities must be carried out by an authorised company, unless the user has trained personnel and suitable tools.
- ① In the event of frequent operation at high temperatures or high loads, the engine oil must be changed every 25 operating hours.
- ② In the event of frequent operation in dusty or harsh environments, the air filter element must be cleaned every 10 operating hours. If necessary, the air filter element must be replaced every 25 operating hours.

6.3 Inspection and maintenance



Switch off the generator engine before carrying out maintenance work.

The motor must be installed in a horizontal position.

To prevent the engine from starting, the spark plug connector must be disconnected from the spark plug.

Do not carry out maintenance work indoors or in other poorly ventilated areas. Ensure that the work area is well ventilated. The exhaust fumes from the engine contain toxic gases and carbon monoxide; inhalation can lead to shock, unconsciousness and even death.

6.3.1 Carburettor

The carburettor is an important component of the engine. The adjustment must be carried out by a specialised company with the appropriate knowledge, data and equipment to ensure that the adjustment is carried out correctly.

6.3.2 Spark plug

The spark plug is an important component of the generating set that must be checked regularly.

Spare part:

Designation. Spark plug

Type: BPR6ES

Alternative: Champion RN11YC | Bosch WR6DS | Torch F6RTC

Procedure:

- Power generator switched off and cooled down.
- Place the power generator on a horizontal, level surface.
- Undo the screw and remove the left-hand maintenance cover.
- Remove the spark plug cap from the spark plug.
- Remove spark plug.
- Check the condition of the spark plug:
 - Remove carbon deposits.
 - Check the colour of the ceramic cores around the centre. These should be pale to moderately brown in colour. If not, replace the spark plug.
 - Check the spark plug electrode gap and adjust if necessary. The electrode gap must be 0.7 - 0.8 mm.
- Screw in the spark plug and tighten to a torque of 12.5 Nm.
- Attach the spark plug cap to the spark plug.
- Fit the left-hand maintenance cover.

6.3.3 Changing the engine oil



When the engine is running, the engine oil is very hot and can cause severe burns.

Fuel:

Type: Engine oil SAE 10W-30

Quantity: 0.8 litre

Auxiliary means:

Oil-resistant container (capacity approx. 1 litre)

Procedure:

- Place the power generator on a horizontal, level surface.
- Switch on the generator engine and let it run for a few minutes so that the engine oil warms up a little and thus improves its flow properties.
- Switch off the motor.
- Undo the screw and remove the right-hand maintenance cover.
- Unscrew the oil dipstick.
- Remove the cap from the oil drain line.
- Place the container underneath the generator and drain the engine oil.
- Dispose of used engine oil in an environmentally friendly manner.
- Fit the cap on the oil drain line.
- Fill with 0.8 litres of SAE 10W/30 engine oil.
- Insert the oil dipstick, but do not screw it in.
- Pull out the oil dipstick and check the oil level on the oil dipstick. Correct the oil level if necessary.
- Screw in the oil dipstick.
- Fit the right-hand maintenance cover.

6.3.4 Air filter

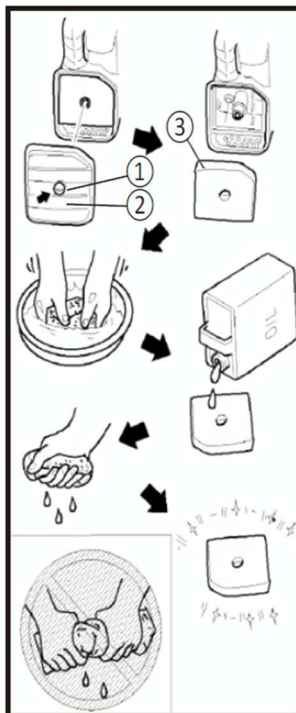
A dirty air filter can prevent air from flowing into the carburettor. To prevent the carburettor from failing, the air filter should be serviced regularly. If the generating set is used in a dusty environment, the air filter must be serviced more frequently

Auxiliary means:

container with a mixture of warm water and mild detergent.

Procedure:

- ☑ Power generator switched off and cooled down.
- ☑ Place the power generator on a horizontal, level surface.
- ☑ Undo the screw and remove the right-hand maintenance cover.



- ☑ Remove the screw ① and remove the cover plate ②.
- ☑ Remove the filter element ③.
- ☑ Check the filter element for damage. Replace damaged filter element.
- ☑ Clean the filter element in a mixture of warm water and mild detergent and rinse with clear water. Dispose of the cleaning mixture containing oil in an environmentally friendly manner.
- ☑ Allow the filter element to dry.
- ☑ Apply a few drops of oil to the filter element and squeeze out the excess oil. The filter element must be moist with oil, but no oil should drip off.

- ☑ Insert the filter element into the air filter. Make sure that the filter element fits snugly against the air filter and that there is no gap.
- ☑ Place cover plate on air filter and fasten with screw.
- ☑ Fit the right-hand maintenance cover.

6.3.5 Fuel strainer



Do not smoke when handling fuel and keep ignition sources away!

Auxiliary means:

Container with clean petrol.

Procedure:

- Power generator switched off and cooled down.
- Place the power generator on a horizontal, level surface.



- Remove the fuel tank cap from the fuel tank.
- Remove the fuel strainer from the fuel tank.
- Clean the fuel strainer with petrol.
- Dry the fuel strainer.
- Insert the fuel strainer into the fuel tank.
- Fit the fuel filler cap.

7 EU Declaration of Conformity

The manufacturer/distributor

Kernlochbohrer GmbH
Geigersbühlweg 52
72663 Großbettlingen
Germany

hereby declares that the following product

Product description: **Inverter power generator**
Type: **Si6000E**

complies with all relevant provisions of the applicable legal regulations (hereinafter) - including their amendments valid at the time of the declaration. This declaration of conformity is issued under the sole responsibility of the manufacturer. This declaration relates only to the machine in the state in which it was placed on the market; parts and/or modifications subsequently fitted by the end user are not taken into account.

The following legal provisions were applied:

Machinery Directive 2006/42/EU (for delivery until 19 January 2027) or Machinery Regulation (EU) 2023/1230 (for delivery from 20 January 2027)

Electromagnetic Compatibility Directive 2014/30/EU

Directive on the noise emission in the environment by equipment for use outdoors 2000/14/EU and 2005/88/EU

The following harmonised standards were applied:

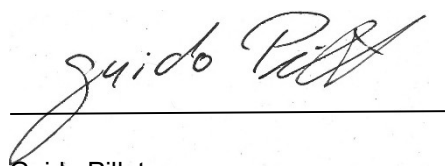
EN ISO 8528-13:2016	Generating sets with reciprocating internal combustion engines – Part 13: Safety
EN 55012:2007 + A1:2009	Vehicles, boats and internal combustion engine driven devices - Radio disturbance characteristics - Limits and methods of measurement for the protection of external receivers
EN ISO 3744:1995	Determination of sound power levels of noise sources using sound pressure - Enveloping surface method of accuracy class 2 for an essentially free sound field over a reflecting plane
EN ISO 8528-10:1998	Power generating sets with reciprocating internal combustion engines - Part 10: Measurement of airborne acoustical noise by the enveloping surface method

Name and address of the person authorised to compile the technical documentation:

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Großbettlingen 2025-12-13

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