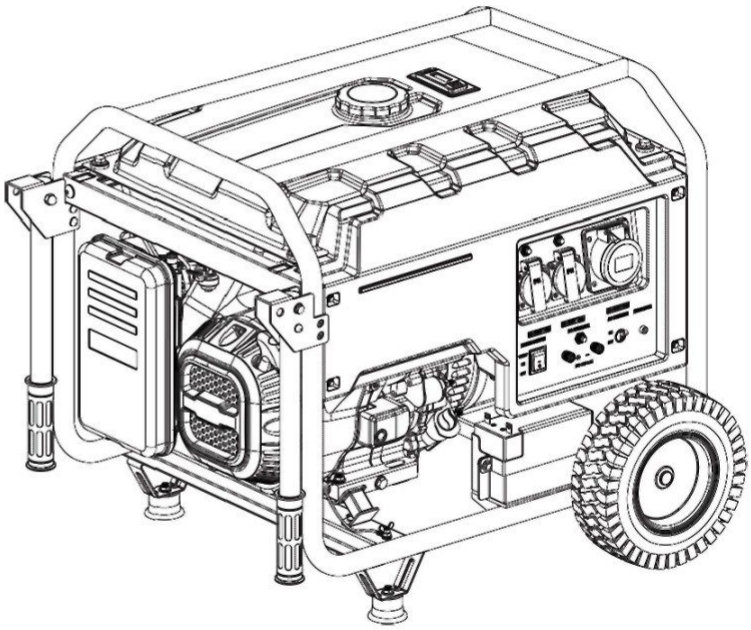
HAHN & SOHN

WARRANTY CERTIFICATE OPERATING INSTRUCTIONS

HGG11000
HGG14000



ISO 9001:2015

OPERATING INSTRUCTIONS FOR THE GENERATOR

HGG11000/HGG14000

Introduction

Thank you for your trust and congratulations on your choice.

The generator has been manufactured in accordance with European Union safety regulations, but incorrect use or use that does not comply with these instructions may cause serious danger to the health or life of the operator, other persons or animals. The safety of the operator and other persons or animals is our priority. Please read this operating manual carefully. If you have any questions, please contact Hahn & Sohn GmbH or its authorised regional representative before putting the device into operation.

Please also read the warranty certificate. The warranty certificate describes the most important obligations of the user, compliance with which will keep the device in good condition and protect against loss of warranty. If the user fails to comply with these operating instructions, Hahn & Sohn GmbH shall not be liable (under warranty) for any damage incurred. In such a case, Hahn & Sohn GmbH shall also not be liable for injury or death of the operator, other persons or animals.

There are a number of warnings in the manual and on the device, e.g. in the form of warning stickers. Failure to comply with any of these warnings may be the direct cause of a serious accident.

The manual contains information that is current at the time of printing. This may differ from the appearance of the machine and its parameters due to continuous product development and improvement. The user is obliged to point out these differences. Hahn & Sohn GmbH reserves the right to make changes to the content of the manual without prior notice and without providing written explanations to the purchasers of the device.

ORIGINAL INSTRUCTIONS
Revision 2.3
dated 1 April 2022

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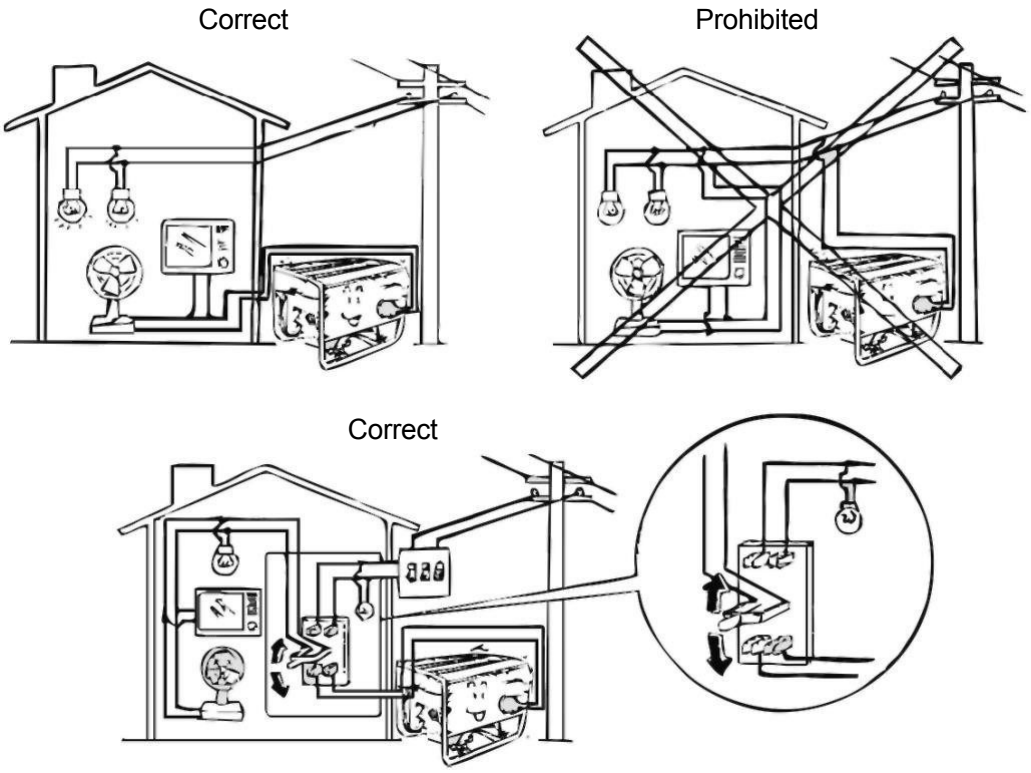
1. Safety nd instructions

Before using the generator for the first time, it is necessary to read the operating instructions!

- The device may only be operated by adults who have been trained in its operation and have a category 1 "E" licence.
- When working with the device, follow the instructions in the operating manual and comply with applicable health and safety, fire safety and state regulations.
- If you have any doubts regarding the operation and/or commissioning of the generator, please contact an authorised representative of Hahn & Sohn GmbH.
- Place the generator on a stable, level surface.
- The work area must be tidy and adequately lit. A powder fire extinguisher and emergency lighting must always be located near the generator.
- Store the generator in a dry, well-ventilated place. Do not inhale the exhaust fumes produced during operation of the device – poisoning can be fatal.
- Do not leave the device unattended while it is in operation, and keep unauthorised persons away from it.
- Do not operate the device near explosives, flammable substances, gases, dust or open flames. It is prohibited to store the generator near fuel tanks. In the event of a fuel leak, immediately switch off the generator and have it repaired by an authorised service centre.
- The device must be located at least 1 m away from walls and other equipment.
- Wear appropriate clothing and personal protective equipment, hearing protection and gloves when working. Do not wear loose clothing or jewellery.
- Do not touch rotating parts while the device is in operation.
- Using the generator in high humidity conditions, near water reservoirs or sprinklers, and operating the generator with wet hands may result in electric shock.

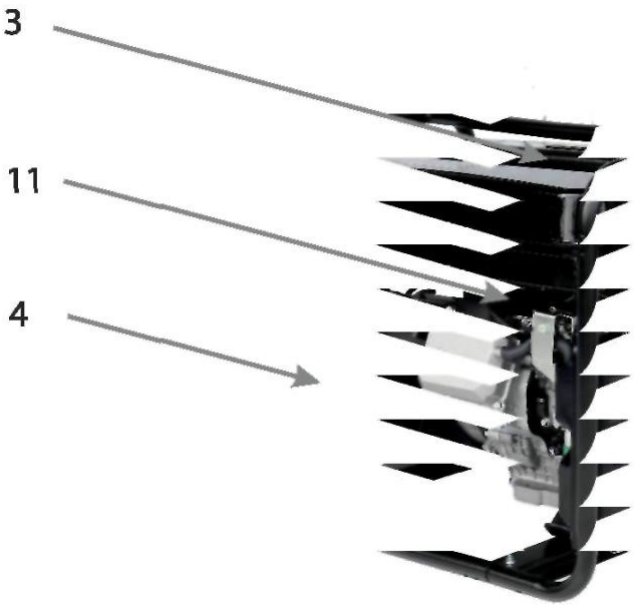


- If you need to use an extension cord, make sure it has adequate insulation – an outer sheath.
- The length of the extension cord must not exceed 60 m with a conductor cross-section of 1.5 mm^2. For longer distances, use an extension cord with a larger conductor cross-section (consult an experienced electrician).
- Keep the generator out of the reach of children, animals and unauthorised persons.
- If the generator is stored outdoors, check the condition of the equipment before each use. Dirt and ice can cause generator malfunctions, short circuits in electrical components and, as a result, electric shock.
- Do not connect the generator directly to the local power grid. Install a device that switches the power supply from the mains and the generator. Installation must only be carried out by a qualified technician.

- Refuelling the device while it is switched on is strictly prohibited. Stop the device before refuelling.
- Do not start the generator if fuel has been spilled. Remove the spilled fuel and wipe the affected area dry.
- Do not smoke or use open flames near fuel tanks.
- Do not place any objects on the operating equipment.
- During operation, some parts of the equipment (exhaust, silencer, engine) become very hot. Do not touch hot parts while the generator is running or immediately after it has been stopped.

2. Generator design elements

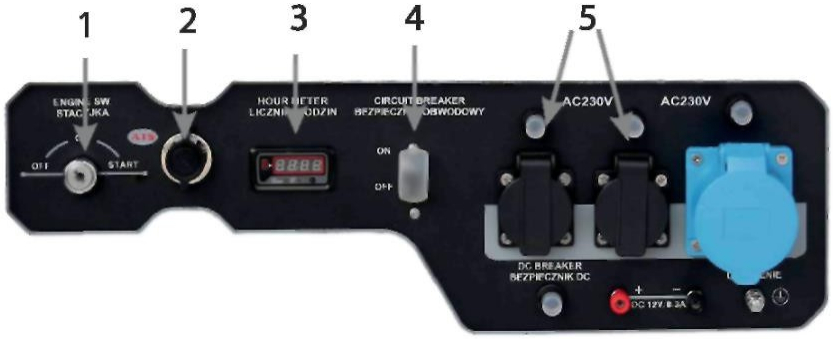
2.1. External appearance (based on HGG 11000EA)



1. Fuel tap
2. Fuel tank
3. Folding handle
4. Muffler with exhaust tip
5. Fuel gauge
6. Manual starter
7. Air filter
8. Oil filler cap with bayonet
9. Oil drain plug
10. Ignition box
11. Spark plug

2.2. Control panel

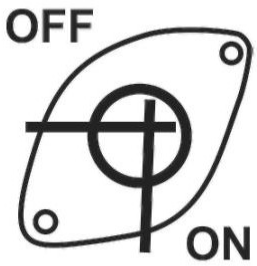
Control panel for model HGG 11000EA



1. Ignition box
2. Socket for communication with automatic backup
3. Engine hour meter
4. AC circuit fuse
5. AC 230V sockets

2.3. Fuel nd tap

The fuel tap is located between the fuel tank and the carburettor. When in the ON position, fuel flows freely to the carburettor. Always remember to switch the fuel tap to the OFF position after stopping the engine.



2.4. Circuit breaker

AC/DC overcurrent protection. The load circuit breaker closes the power supply circuit for appliances connected to the generator. It has built-in protection that disconnects the power supply to overloaded appliances in the event of an overload. If the switch automatically switches to the OFF position while the generator is in operation, check the operation of the appliances connected to the generator before switching back to the ON position to ensure that their total power consumption does not exceed the generator's power output.

The power switch is used to turn the power to the appliances on and off.

2.5. nd grounding terminal

The grounding terminal is located on the generator panel and is connected to the generator components that should not be live during normal operation (e.g. frame, casing, etc.) and to the grounding of each socket. Ground the generator before use. This will reduce the risk of electric shock in the event of a malfunction.

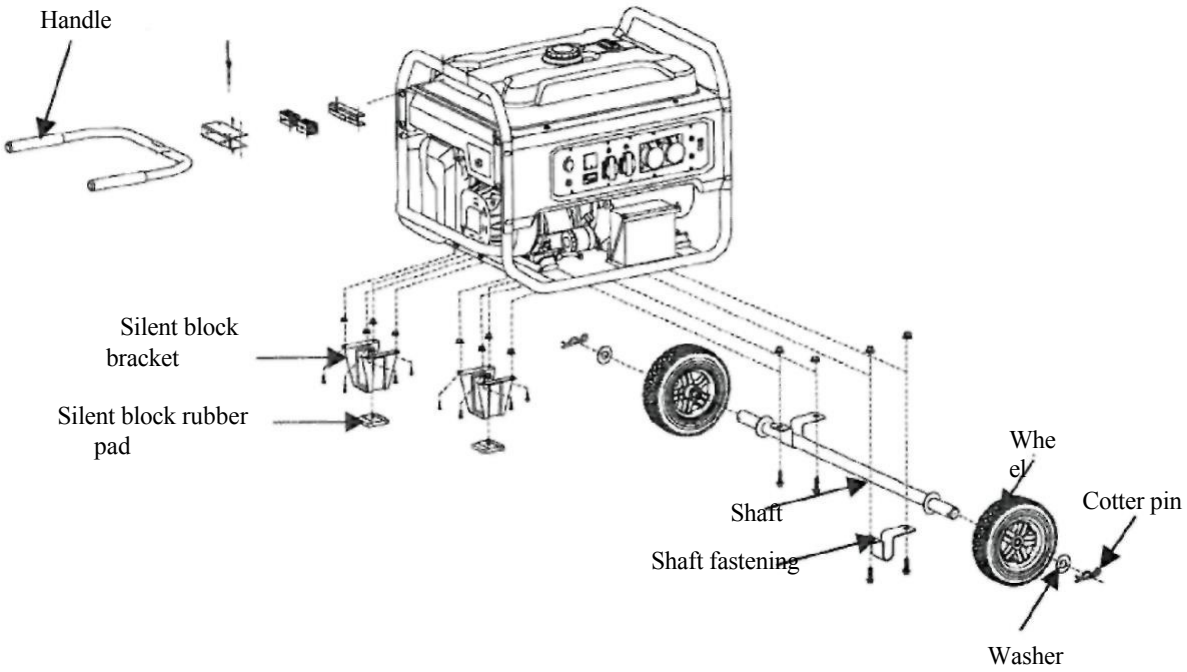
2.6. il low level alarm

The generator engine is equipped with a low oil level sensor. The low oil level alarm causes the generator to shut down if the oil level falls below the minimum level to protect the engine from damage. The engine switch remains in the ON position. The engine cannot be started until oil is added. If the generator shuts down, check the oil level in the engine first.

3. Before putting the generator into operation

3.1. ccessory installation

Install the handles, silent blocks and wheels on the generator frame using screws as shown in the figure below.



NOTE GA

Before each start-up of the generator, it is necessary to check:

- the overall condition of the generator (tightening of screws, covers, condition of wire insulation, visual inspection of connections between individual generator components, removal of dirt, etc.),
- the oil level in the engine,
- the fuel level in the tank,
- cleanliness of the air filter,
- whether the generator is standing on a flat, horizontal and stable surface.

3.2 nd generator grounding

To prevent electric shock, the generator must be grounded. Connect the grounding wire (thick) to the grounding terminal on the generator panel on one side and to the ground on the other side. In field conditions, bury a steel strip at least 0.5 m deep and at least 3 m long in the ground and connect the generator's grounding wire to it.

The generator must be connected to the domestic power supply by a specialist company in accordance with all electrical engineering principles. Improper connection of the generator to the domestic power supply may cause a fire in the electrical installation, an explosion and damage to the generator. Installation in the domestic power supply may only be carried out by a company or person with SEP authorisation up to a minimum of 1 kV.

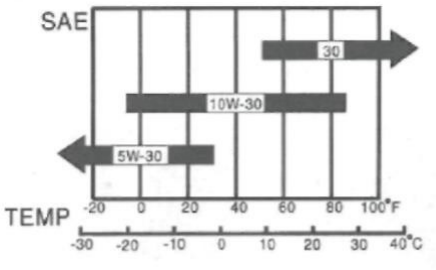
3.3. Engine oil

The engine's level sensor does not exempt the user from checking the oil level on a daily basis!

Before each start-up of the generator, check the oil level in the engine. Check the oil level when the generator is balanced and the engine is not running. To check the oil level:

1. Unscrew the oil filler cap, wipe the dipstick, and reinsert it (without screwing it in).

2. Remove the dipstick again and check the oil level on the dipstick. If the level is below the minimum, top up the oil according to the instructions in Chapter 7.



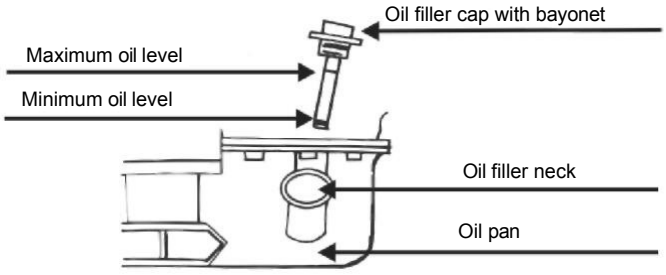


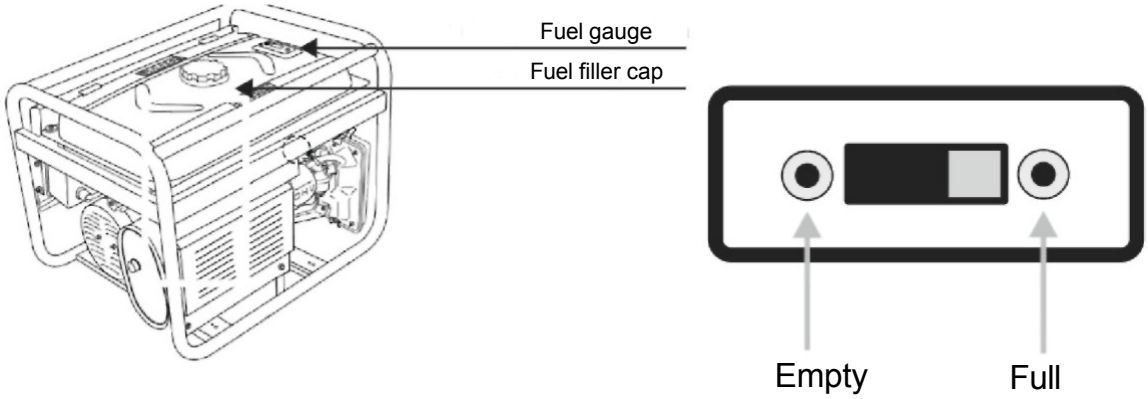
Table 3.3. Permissible ambient temperatures for selected engine oils

A lack of oil will cause the generator to shut down unexpectedly (if the oil level in the engine is low, the level sensor will cause the engine to stop).

3.4. Fuel

1. Check the fuel level in the tank using the gauge located on the tank near the filler neck.
2. Refuel if the fuel level in the tank is low. The fuel filler neck indicates the maximum fuel level in the tank.
3. After refuelling, tighten the filler cap properly.

Do not mix petrol with engine oil or diesel fuel.

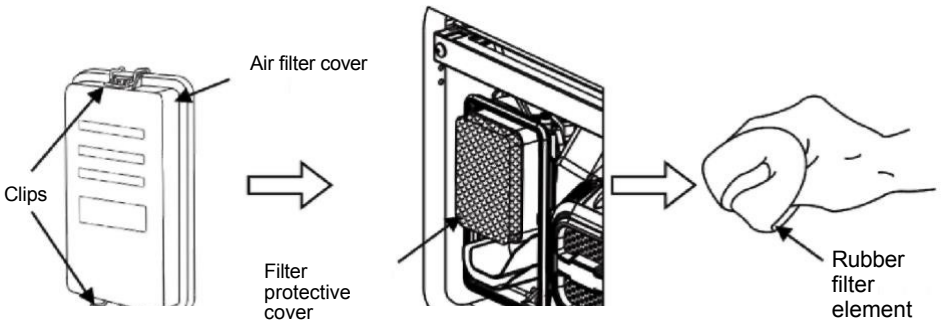


⚠ UWAGA

Petrol is flammable and explosive, so exercise extreme caution:

- Petrol is a product with a very low ignition temperature.
- Petrol vapours form an explosive mixture with air.
- Closed containers exposed to fire or high temperatures may explode due to pressure build-up inside. Keep all potential sources of fire away from petrol cans.
- Refuel only with the engine stopped and in a well-ventilated area.
- If fuel is spilled during refuelling, wipe all wet parts dry before putting the equipment into operation. The warranty does not cover damage caused by spilled fuel.
- Avoid inhaling vapours and contact with petrol.
- Do not smoke or use open flames near the storage area or during refuelling.
- Do not allow any dirt or water to enter the tank.

3.5. Air nd filter



1. Loosen the clips and remove the air filter cover.
2. After removing the filter protective cover, check the technical condition of the rubber filter element.

If the element is dirty, wash it in warm water. Do not wring out the foam! If the filter is damaged, replace it.

NOTE\GA

Do not operate the device without the filter installed.

4. Commissioning

Before putting the generator into operation, perform the activities described in Chapter 3.

4.1. Manual nd starting

1. Turn the fuel tap to the ON position.
2. Switch the AC load switch to the OFF position.
3. Pull the manual starter cord gently until you feel resistance. Then pull vigorously. If the engine does not start on the first attempt, repeat the procedure.

Do not release the starter handle; slowly guide it back into the engine cover so that it does not hit the engine cover.

4. If the choke is engaged, disengage it after the engine has warmed up by moving the choke to the **Closed** position**.**
5. Now you can switch on the load. Connect the electrical appliances and switch the AC mains switch to the ON position. Remember not to connect several devices at the same time. Only connect additional devices after the previously connected device has stabilised. The total power of the devices must not exceed the rated power of the generator.

4.2. Electric start-

1. Turn the fuel tap to the ON position.
2. Switch the circuit breaker to the OFF position.

3. Switch the switch box to the START position, then to the ON position and hold until the engine starts. Release the switch box when the engine starts. The switch box will return to the START position.
4. If the choke is engaged, disengage it after the engine has warmed up by moving the choke to the **Closed** position**.**
5. Now you can switch on the load. Connect the electrical appliances and switch the mains switch to the ON position. Remember not to connect several devices at the same time. Only connect additional devices after the previously connected device has stabilised. The total power of the devices must not exceed the rated power of the generator.

4.3. Cooperation of the generator with a third-party ATS (automatic transfer switch)

The generator can be connected to an external ATS system -
automatic backup in case of a power failure from the connected electrical network to the generator.

Before connecting, disconnect the power supply from the external electrical network!

1. Ensure that the switch box is in the OFF position.
2. Connect the battery to the generator socket.
3. Connect the external mains power supply to the socket.
4. Connect the external ATS to the ATS communication socket.
5. Connect the external electrical network to the ATS according to the enclosed instructions.
6. Switch on the external electrical installation.
7. Switch on the generator by turning the switch box to the ON position. Turn the circuit breaker to the ON position.
8. Switch on the installed automatic backup according to the enclosed instructions.

5. Switching off

5.1. Switching off the generator in an emergency situation

Turn the key in the ignition switch to the OFF position.

5.2. Standard procedure for switching off the generator

1. Switch off all connected appliances.

2. Disconnect all appliances. Switch the circuit breaker to the OFF position.
3. If the switch box is in the ON position, switch it to the OFF position.
4. Turn the fuel tap to the OFF position.

6. Operation

The generator may only be operated by trained electricians with current certification.
If any unusual phenomena occur during operation, stop the unit and remove the cause according to the instructions before restarting it. If the problem is not described in the instructions, contact the manufacturer's authorised service centre.

If repairs are carried out by a service centre other than the manufacturer's authorised service centre, the user will lose the warranty on the device.

During operation, check and replace individual components of the device according to the schedule on page 19.

6.1. Connecting appliances to sockets AC

⚠ NOTE

Before connecting electrical appliances to AC sockets, ensure that they are switched off.
Ensure that all electrical devices to be connected, including cables and plugs, are in good condition.
Ensure that the total load is less than the rated power of the generator.
Ensure that the load current is less than the rated current of the socket. Ensure that the generator is earthed. If the electrical equipment is not earthed, the generator must always be earthed.

1. Start the engine.
2. Connect the equipment to the AC mains socket.
3. Switch on the connected electrical equipment.

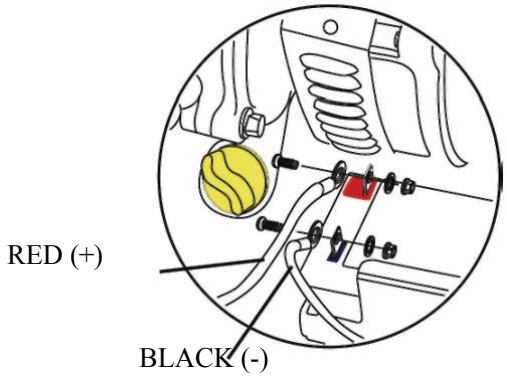
Most motor-driven devices have higher electrical parameters than the rated ones during start-up. When connecting several electrical appliances, connect the device with the highest starting current first and the device with the lowest starting current last.

6.2. Charging the battery

⚠ NOTE

Switch off the motor before performing any maintenance.
The negative terminal of the battery must always be disconnected first and connected last.

- Connect the charger cables to the battery terminals carefully so that they do not become disconnected due to engine vibration or other factors.
- Observe all possible safety precautions when charging the battery. Avoid sparks and the use of fire in the battery charging area.
- The electrolyte in the battery is an acid solution, it is toxic and dangerous, and can cause serious burns. Avoid contact of the electrolyte with skin, eyes and clothing. If the electrolyte comes into contact with the body, immediately remove contaminated clothing, but do not pull off any clothing that has adhered to the body - leave this to professional medical care. Wash the contaminated area with plenty of clean running water. In case of burns, also wash with a 1% solution of sodium bicarbonate (baking soda) or ordinary soap (alkaline reaction) to neutralise the acid. The use of any ointments is prohibited. Treat the injured area with a sterile bandage and seek medical attention immediately.



7. Inspections and checks

The purpose of regular inspections and adjustments is to keep the generator in good condition.

Table 7.1 contains mandatory checks and inspections of the generator. Compliance with these recommendations will extend the service life of the equipment and protect against loss of warranty. Failure to comply with the recommendations in the table may result in loss of warranty. If necessary, perform the activities more frequently than indicated in the table.
The following symbols are used in the table below:
X(1) - means that the activity must be performed for the first time after a certain period of time,
X(2) - means that the activity must be performed a second time and thereafter after a certain period of time, X(3) - means that the activity must be performed using special equipment and by a qualified person.

Table 7.7. *Inspection and check intervals for individual parts of the generator set*

Always perform inspections after the specified time or number of hours worked (whichever comes first).		Each time used	Every month or 20 hours	Every six months or 100 hours	Every year or 20 hours
Engine oil	Check	X			
	Replace		X(3)	X(3)	
Air filter	Check	X		X(2)	
	Replace				
Oil filter	Replace		X - at first replacement		X(3) every 200 hours
Spark plug	Clean/ Adjust			X	
Carbon on spark plug	Clean			X	
Valve clearance	Clean/ Adjust				X(3)
Fuel tank	Clean				X(3)
Fuel system	Check				X(3)

7.1. Change engine oil and oil nd filter

Drain the old oil while the engine is warm. Warm oil drains more quickly and thoroughly. To drain the old oil from the engine:

1. Place a container under the engine, loosen the filler cap and the oil drain plug.
2. Drain the old oil. Then tighten the drain plug.
3. Replace the oil filler cap.

Before changing the oil, make sure that the fuel tap lever is in the OFF position.

Drain the oil while the engine is still warm. This will allow the used oil to drain from the engine more easily. Be careful not to burn yourself. However, do not drain the oil immediately after stopping the engine.

Do not tilt the device when refilling oil, as you may overfill the engine, which will damage it.

Place the used oil in a designated container and dispose of it. Do not pour oil onto the ground or into waste, and do not dispose of it in municipal waste.

The oil filter must also be replaced each time the oil is changed.

4. Unscrew the oil filter using a filter wrench.

Place the wrench on the filter sleeve to prevent the filter from slipping and damaging the engine.

5. Clean the filter inlet and fit a new filter and new seal, then pour 0.1 litres of new engine oil into the filter.

Use only genuine oil filters. Using a filter other than a genuine filter or a filter from another model may cause engine damage.

6. Tighten the filter until the seal contacts the filter housing and tighten it 7/8 of a turn with a filter wrench (22 Nm).
7. Pour approx. 1.3 litres of new engine oil into the oil pan. Screw in the oil filler cap.

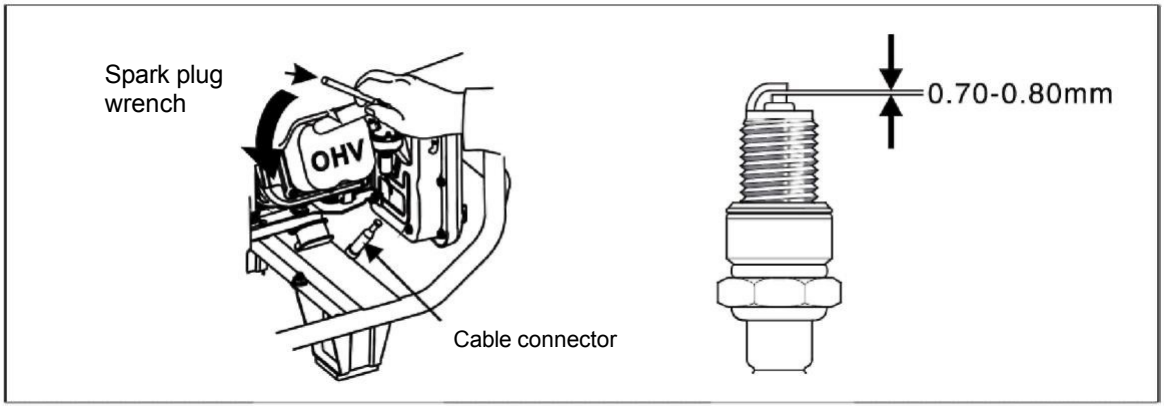
8. Start the engine and check for oil leaks.
9. Stop the engine, check the oil level and top up to the correct level if necessary.

7.2. Replacing the spark

Recommended spark plug: RN9YC or N9YC.

An unsuitable spark plug can damage the engine.

1. Disconnect the ignition cable terminal and remove any dirt around the spark plug.
2. Unscrew the spark plug with a spark plug wrench.



3. Check the spark plug. If the electrode is burnt out, damaged or does not produce a strong spark, replace the spark plug with a new one. If it is clogged, clean it with a wire brush.
4. Measure the gap between the electrodes with a feeler gauge. The gap should be 0.7-0.8 mm.
5. Check that the spark plug washer is in good condition.
6. Screw the spark plug in lightly by hand so as not to damage the thread.
7. Tighten the spark plug with a wrench:
   - old spark plug 1/8-1/4 turn after tightening by hand,
   - new spark plug 1/2 turn after tightening by hand.

An under-tightened spark plug can cause the engine to overheat. Over-tightening the spark plug can damage the thread.

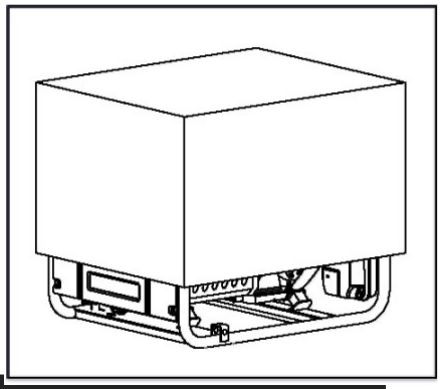
8. Replace the spark plug cap.

8. Transport and storage

Long-term storage and transport of the equipment requires measures to be taken to prevent damage to the generator. During transport or storage, the generator must be secured in an upright position, as during operation, with the engine switch in the OFF position. The fuel tap lever must be in the OFF position. This will prevent fuel spillage.

During transport of the generator:

- Do not fill the tank with too much fuel - there must be no fuel in the tank neck.
- Never use the generator in a vehicle; remove the generator and use it in a well-ventilated area.
- Do not leave the generator in a vehicle for long periods of time, as high temperatures can build up when heated by the sun. The generator may explode.
- If the road is uneven and the vehicle is swaying, drain all fuel from the generator before transporting it.
- The device must be securely fastened and the fuel tap lever must be in the OFF position, and the fuel filler cap must be tightly closed.



⚠ UWAGA NOTE

To transport the generator, hold it by the handles marked with dotted lines in the figure. During transport, take care not to drop or damage the generator. Do not place heavy objects on the generator. To transport the generator by vehicle, secure it to the frame as shown in the figure below.
Store the generator in a clean and dry place. The device must be protected from rain and high temperatures. To protect the generator during storage, it is recommended to cover it with a paper or plastic box to protect it from dust.

Handle
(included with the set)

Store the generator in a covered area to protect it from direct atmospheric influences. To keep the device in good condition, clean it of dust and other dirt after use, then preserve it.

Before transporting and storing the device, switch it off and allow it to cool completely - storing or transporting a hot device may cause a fire or accident. Before transport, it is necessary to thoroughly secure the device against any mechanical damage and movement during transport. Inadequate securing of the device before transport may cause a serious accident. Putting the device into operation after transport other than as described in this manual may cause damage or destruction that is not covered by the warranty.

9. Technical parameters

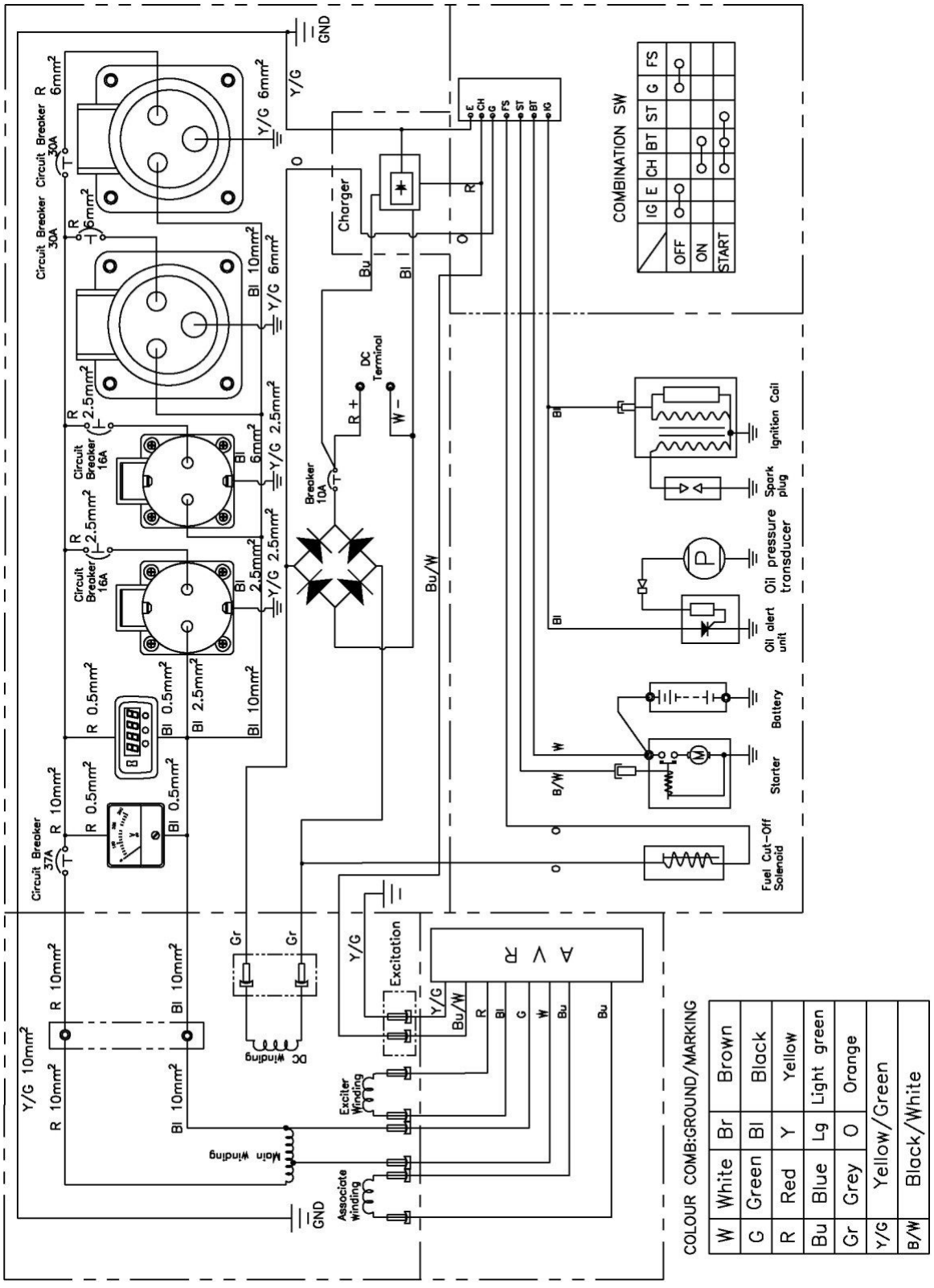
Parameter		Model	HGG11000		HGG14000	
			HGG11000EA	HGG11000E3A	HGG14000EA	HGG14000E3A
Generator	Frequency		50 Hz			
	Voltage [V]		230	230 /400	230	230/400
	Nominal current [A]		34.8	10.8	43.5	18
	Rated power [kVA]		8	(~1) 3 (~3) 10	10	(~1) 3.5 (~3) 12.5
	Maximum power [kVA]		8.5	(~3) 10.6	11	(~3) 13.7
Engine	Type		petrol, 4-stroke			
	Starting		electric/manual			
	Oil tank capacity [L]		1.1		1.6	
	Fuel		Pb95			
	Fuel tank capacity [L]		25		48	
Dimensions / Weight	Dimensions [mm]		681x546x550	681x540x545	800x620x650	
	Net weight [kg]		≤89		143	

Parameter		Model	HGG11000E-E3	
			230 V	400 V
Generator	Frequency		50 Hz	
	Voltage [V]		230	400
	Nominal current [A]		34.8	14.4
	Rated power [kVA]		8	10
	Maximum power [kVA]		8.5	10.6
Engine	Type		petrol, 4-stroke	
	Starting		Electric/manual	
	Oil tank capacity [L]		1.1	
	Fuel		Pb95	
	Fuel tank capacity [L]		25	
Dimensions / Weight	Dimensions [mm]		681x546x550	
	Net weight [kg]		≤88	

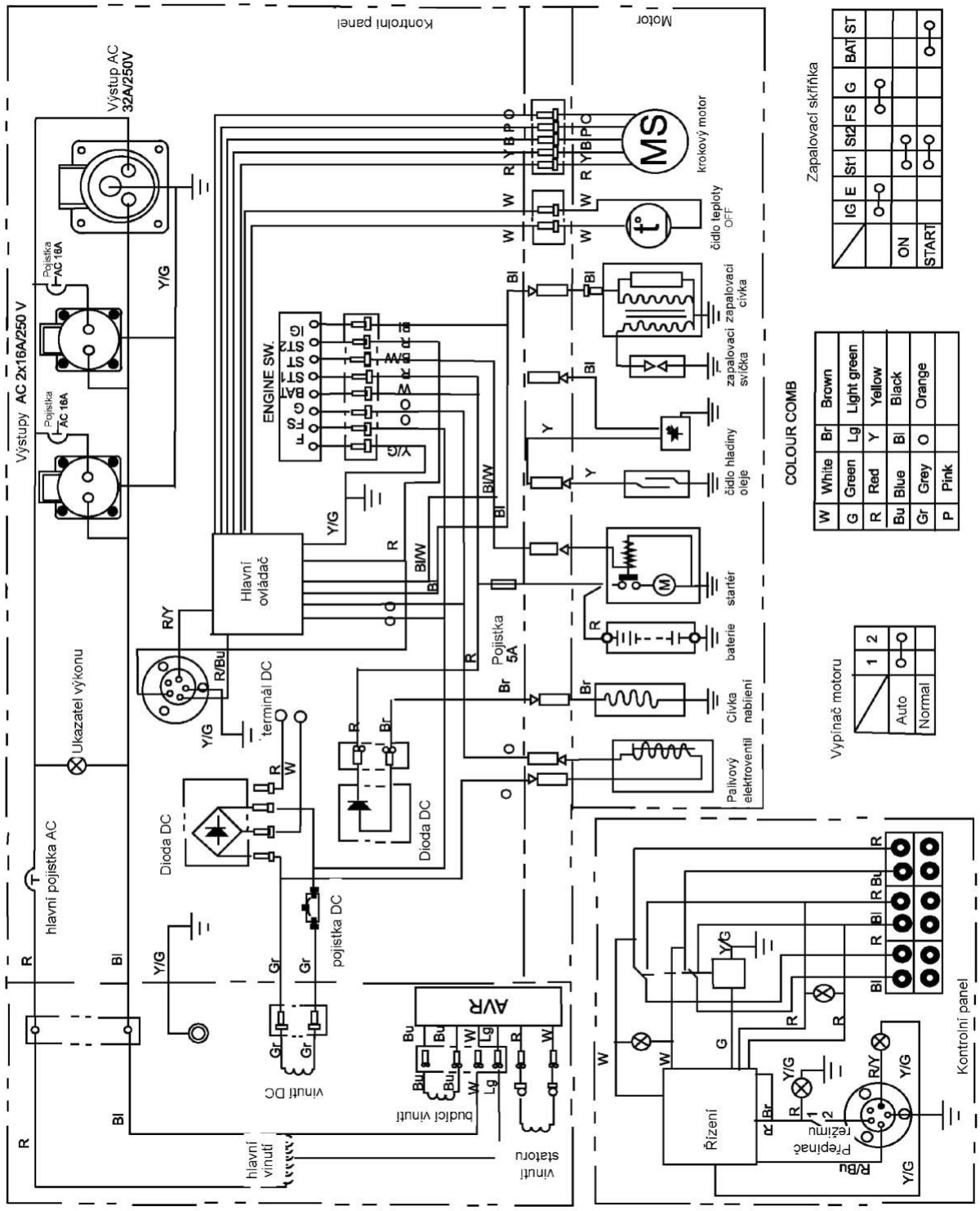
10. Electrical al diagrams

Electrical diagram 1 for HGG14000

50 Hz, 230 V, CE



Electrical diagram for HGG11000EA with ATS



EC DECLARATION OF CONFORMITY

EC Declaration of Conformity

Declaration of conformity number:
01/105404/2019

HAHN & SOHN

Updated on:
01/10/2019

Declaration of conformity issued by:	Hahn & Sohn GmbH
Address of the issuer of the declaration of conformity:	Auf der Schanze 20 93413 Cham
Notified body: Address of	TÜV Rheinland LGA Products GmbH S ÀR.L.
the notified body: Notified	(TillyStraβe 2, 90431 Nuremberg, Germany
body number:	0197

Type of equipment	**HGG11000EA, HGG11000E3A** **generator**
Model/Type:	EA - single-phase E3A - three-phase

Measured sound power level:	**96 dB/A**
Guaranteed sound power level:	**97 dB/A**

Hahn & Sohn GmbH, Auf der Schanze 20, 93413 Cham, declares under its sole responsibility that the equipment covered by this declaration complies with the requirements set out in the Collection of Laws:

- **dated 21 December 2005 (No. 263 Coll. item 2202)**
- **of 21 October 2008 (No. 199 Coll. item 1228)**
- **dated 2 June 2016 (No. 2016 Coll. item 806)**
- **of 13 April 2016 (No. 2016 Coll. item 542)**

- **Directive 2000/14/EC on noise emissions, as amended by Directive 2005/88/EC**
  (conformity assessment according to Annex V)
- **Machinery Directive 2006/42/EC**
- **Low Voltage Directive 2014/35/EU**
- **Electromagnetic Compatibility Directive 2014/30/EU**

Thanks to the above-mentioned compliance, the products have been placed on the European Union market.

Person authorised to prepare and compile technical documentation: **Ing. Richard Janovský**

The EC Declaration of Conformity shall cease to be valid if the equipment is modified, rebuilt or used contrary to the operating instructions.

VEDOUCÍ ODDĚLENÍ
TECHNICKÉ DOKUMENTACE
In Chamu on 01.10.2019

Ing. Richard Janovský
VEDOUCÍ ODDĚLENÍ
TECHNICKÉ DOKUMENTACE

CE

EC Declaration of Conformity

Declaration of conformity number:
01/104347/2019

HAHN & SOHN

Updated on:
21/03/2019

Declaration of conformity issued by:	Hahn & Sohn GmbH
Address of the issuer of the declaration of conformity:	Auf der Schanze 20 93413 Cham
Notified body: Address of notified body: Notified body number:	TÜV Rheinland LGA Products GmbH S ÀR.L. (TillyStraβe 2, 90431 Nuremberg, Germany 0197

Type of equipment	**Generator**
Model/Type:	**HGG14000EA, HGG14000E3A** EA - single-phase E3A - three-phase

Measured sound power level:	**96 dB/A**
Guaranteed sound power level:	**97 dB/A**

Hahn & Sohn GmbH, Auf der Schanze 20 93413 Cham declares under its own responsibility that the equipment covered by this declaration complies with the requirements set out in the Collection of Laws:

- **of 21 December 2005, No. 263 Coll. item 2202)**
- **of 21 October 2008 (No. 199 Coll. item 1228)**
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- **Low Voltage Directive 2014/35/EU**
- **Electromagnetic Compatibility Directive 2014/30/EU**

Thanks to the above compliance, the products have been placed on the European Union market.

Person authorised to prepare and compile technical documentation: **Ing. Richard Janovský**

The EC Declaration of Conformity shall cease to be valid if the equipment is modified, rebuilt or used in a manner contrary to the Operating Instructions.

VEDOUCÍ ODDĚLENÍ
TECHNICKÉ DOKUMENTACE
In Chamu on 21 March 2019
Ing. Richard Janovský
VEDOUCÍ ODDĚLENÍ
TECHNICKÉ DOKUMENTACE

CE

WARRANTY E

The device is covered by warranty if it is purchased from Hahn & Sohn GmbH or an authorised regional representative of Hahn & Sohn GmbH. The warranty is valid for 1 year or 200 operating hours from the date of purchase. The warranty covers manufacturing and material defects only. The warranty does not cover:

- *mechanical damage resulting from improper operation,*
- *improper repairs using non-original spare parts,*
- *consumables such as switches, capacitors, fuses, V-belts, etc.,*
- *use contrary to the Operating Instructions.*

Have the generator and ATS connected to the power grid by a professional company or persons with current SEP authorisation. Missing date, stamp, signature, including SEP authorisation number in the Warranty Certificate deprives the purchaser of warranty rights to the equipment.
Complaints will not be accepted in the event of the use of unsuitable motor oils and fuels. Overloading the generator may cause damage. It is not permitted to overload the generator to more than 75% of its rated power during continuous operation. Such behaviour is unacceptable and will void the warranty.
In the event of a device malfunction, it must be delivered to **the place of purchase or to the warranty provider's service centre**. The costs of delivering the device to the place of purchase or to the service centre shall be borne by the customer. Complaints will not be accepted in the event of damage caused by reasons beyond the manufacturer's control.

Warranty provider's service centre: Hahn & Sohn GmbH
Auf der Schanze 20
93413 Cham
Tel. +490 9944 890 9 896
Mobile +490 163 02 44 737
E-mailinfo@hahn-profis.de
Website www.hahn-profis.de

Regular checks and inspections, including engine oil and air filter changes, are required to maintain the warranty on the generator, as recommended by the warranty provider:

- *oil checks and top-ups daily or at least every 8 hours of operation,*
- *oil and filter changes: the first after 50 hours or 3 months from the date of purchase, whichever comes first, further changes during the warranty period after 100 hours or 3 months of operation from the date of the last service, whichever comes first, documented in the authorised service network of the Warranty Provider (in the case of intensive use of the generator or operation in an environment with increased dust levels after 50 months, max. 1 month). If the engine is equipped with a timing belt, it must be replaced after 700 hours of operation. The warranty provider reserves the right to reject a claim if oils other than mineral SAE15W-40 are used during the warranty period.*
- *Replacement of the air filter and oil filter at intervals corresponding to the replacement of the engine oil.*

- *oil service during the warranty period is paid for by the user.*

Failure to document the above activities will result in loss of warranty. Documentation of the above inspections, including a record of oil and filter types, service stamps and service dates, must be made each time in the "Warranty Repairs and Post-Warranty Service" section of the Warranty Provider's Operating Instructions or the machine manufacturer's Operating Instructions.

PROHIBITION OF THE USE OF SILICONE AND OTHER ADDITIVES IN FUELS AND OILS!

Our services and deliveries do not include:
- installation, commissioning,
- training in the operation and servicing of the equipment.

Any repairs carried out during the warranty period outside of an authorised service centre will void the warranty.

In the event of a recognised complaint, the warranty is extended by the duration of the repair. Complaints without the presentation of this warranty certificate, including proof of purchase, will not be recognised.

The warranty provider undertakes to remedy any fault reported under the warranty within 30 days of the date of delivery of the equipment.

Failure to collect the device from the warranty provider's service centre within three months of reporting the collection entitles the warranty provider to charge storage costs.

The warranty does not exclude, limit or suspend the buyer's rights under the regulations on liability for defects in sold goods.

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the installation

Description of the fault Scope of repair work, adjustments	Number of working hours	Date and signature of the authorised service centre

Description of the fault Scope of repair work, adjustments	Number of working hours	Date and signature of Authorised Service Centre

Description of fault Scope of repair work, adjustments	Number of working hours	Date and signature of Authorised Service Centre

Description of fault Scope of repair work, adjustments	Number of working hours	Date and signature of authorised service centre

Central distributor and warranty provider
Hahn & Sohn GmbH
Auf der Schanze 20
93413 Cham
Tel.: **+490 9944 890 9 896**
www.hahn-power.de

Warranty/post-warranty service Hahn a syn s.r.o. Lelkova 186/4,
747 21 Kravaře
www.hahn-power.cz