scheppach SG7300 Generator Instruction Manual

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Rev. № 29/11/2022

SG7300

CE

SG7300 Generator

https://www.scheppach.com/de/service

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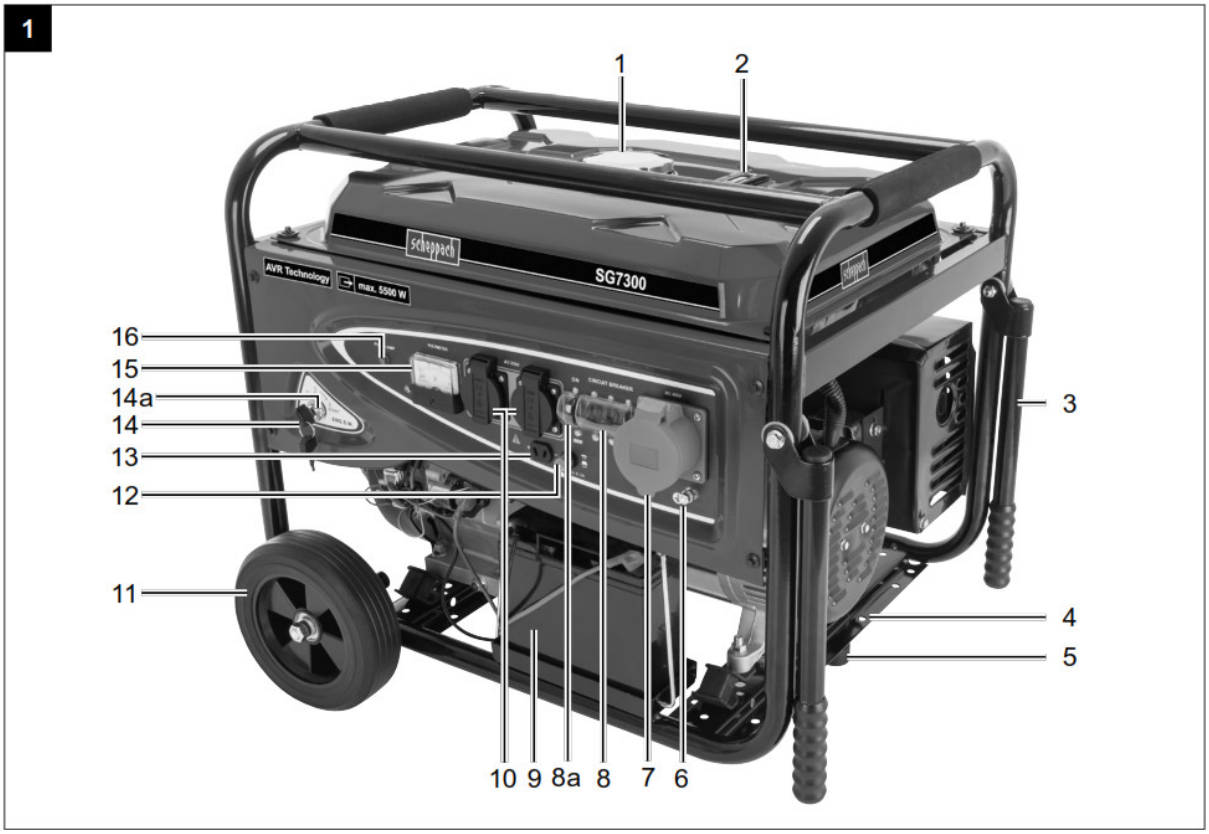

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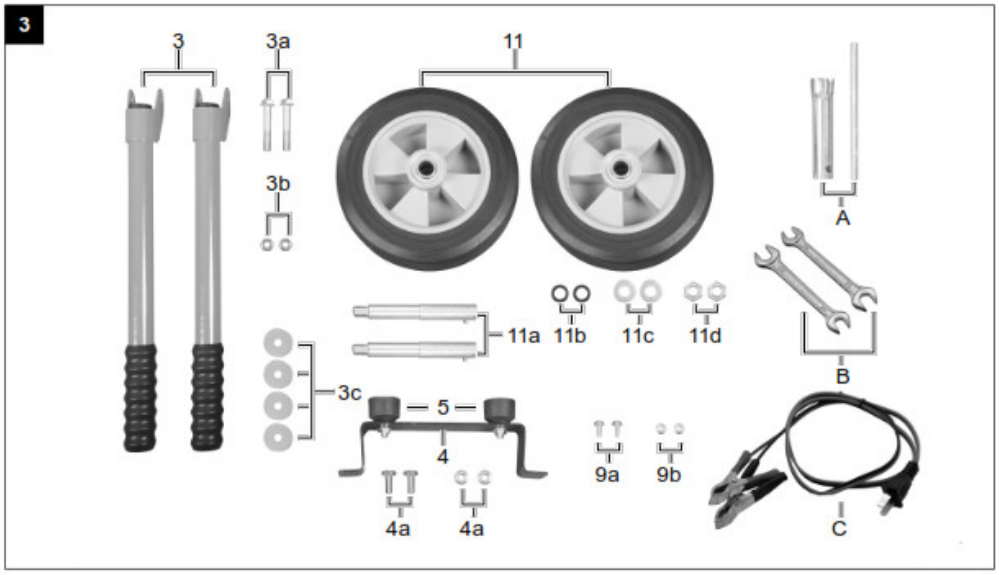
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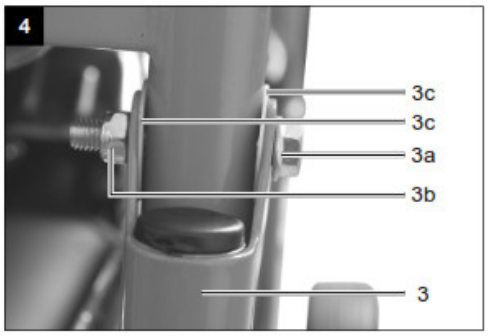
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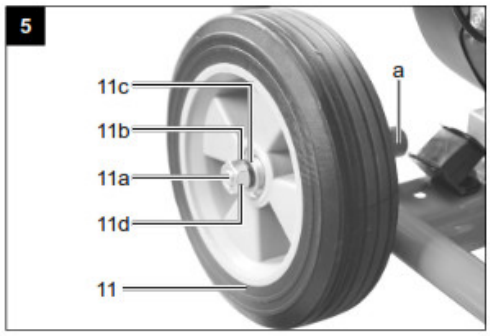
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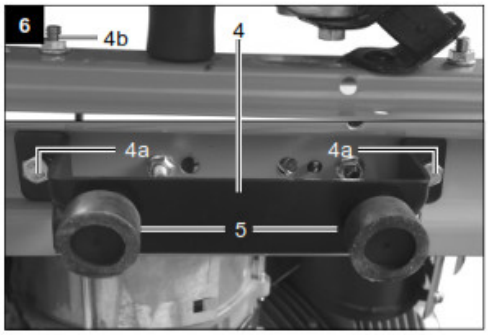
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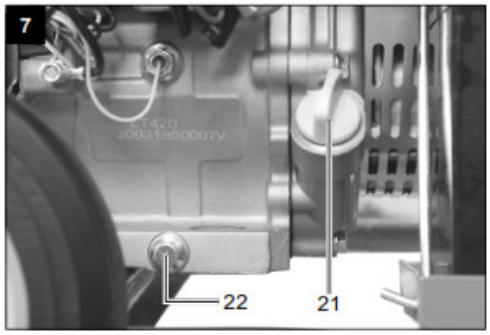
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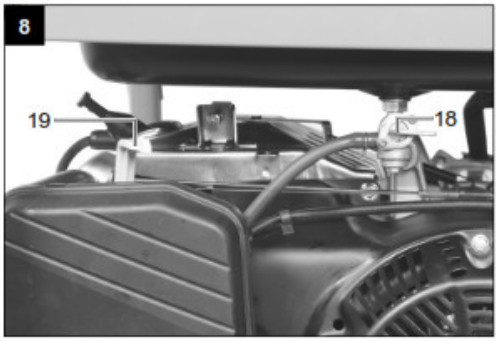
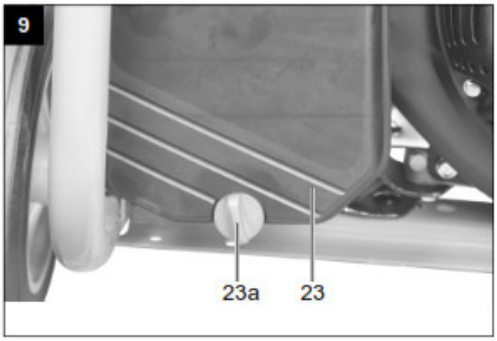
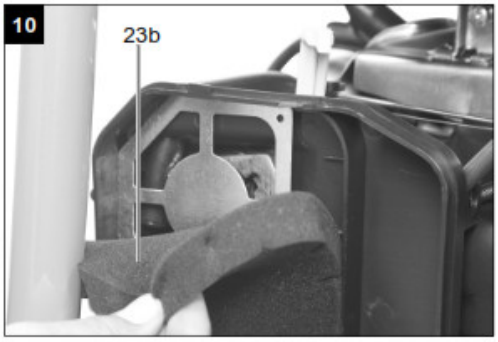
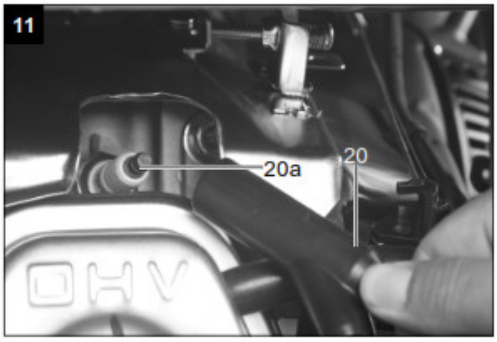








Explanation of the symbols on the device

	Attention! Failure to observe the safety signs and warning information affixed to the ma- chine a nd failure to observe the safety and operating instructions can result in serious injury or even death.
	Before commissioning, read and observe the operating manual and safety instructions!
	Wear hearing protection!
	Wear work gloves!
	Do not expose the device to rain.
	Naked flames or smoking near the device is strictly prohibited!
	Warning – Hot parts!
	Warning against electrical voltage.
	Make sure that other persons maintain a sufficient safety distance. Keep uninvolved persons a way from the device. Attention: hot surface! Danger of burning.

	Switch the engine off before carrying out any cleaning or maintenance work. Disconnect the sp ark plug connector from the spark plug and take out the ignition key.
	Danger of poisoning! Only use the device outdoors and never in closed or poorly ventilated roo ms.
	Sparks are produced when the engine is started. These can ignite nearby flammable gases.
	Read the whole text of the operating manual through carefully before start up!
	Important. Always switch off the engine before refuelling. Do not refill during operation.
	Guaranteed sound power level of the device.
	Be very careful when dealing with fuels and lubricants!
	Check the oil level.
	The product complies with the applicable European directives.

Contents

Introduction

Manufacturer:
Scheppach GmbH
Günzburger Straße 69
D-89335 Ichenhausen
Dear Customer,
we wish you much pleasure and success in working with your new device.
Note:
In accordance with the applicable product liability laws, the manufacturer of this device assumes no liability for damage to the device or caused by the device arising from:

- Improper handling,
- Failure to comply with the operating instructions,
- Repairs carried out by third parties, unauthorised specialists,
- Installing and replacing non-original spare parts,
- Application other than specified.

Note: Read the whole text of the operating manual before assembly and commissioning.
This operating manual should help you to familiarise yourself with your device and to use it for its intended purpose.
The operating manual includes important instructions for safe, proper and economic operation of the device, for avoiding danger, for minimising repair costs and downtimes, and for increasing the reliability and extending the service life of the device.
In addition to the safety instructions in this operating manual, you must also observe the regulations applicable to the operation of the device in your country.
Keep the operating manual at the device, in a plastic sleeve, protected from dirt and moisture. They must be read and carefully observed by all operating personnel before starting the work. The device may only be used by personnel who have been trained to use it and who have been instructed with respect to the associated hazards.
In addition to the safety instructions in this operating manual and the separate regulations of your country, the generally recognised technical rules relating to the operation of such machines must also be observed. We accept no liability for accidents or damage that occur due to a failure to observe this manual and the safety instructions.

Device description (Fig. 1 – 11)

1. Fuel filler cap	14. Ignition key
2. Sight glass	14a. Ignition lock
3. Transport handle (2x)	15. Voltage indicator
4. Holder support foot	16. Voltage display
5. Support foot (2x)	17. Pull starter
6. Earthing screw	18. Fuel valve
7. 400 V socket	19. Choke lever
8. Circuit breaker 400 V	20. Spark plug connector
8a. Circuit breaker 230 V	20a. Spark plug
9. Battery	21. Oil dipstick
10. 230 V socket (2x)	22. Oil drain plug
11. Transport wheels (2x)	23. Air filter
12. Reset button for 12 V	23a. Grip screw
13. 12 V connection	23b. Foam

Scope of delivery (Fig. 3)

- Transport handles (3)
- Hexagonal bolt (M8 x 50) (3a)
- Hexagonal nut, selflocking (3b)

- Washer, plastic (4x) (3c)
- Holder support foot (4)
- Hexagonal bolt (M8 x 20) (4a)
- Locking nut (M8) (4b)
- Support foot (2x) (5)
- Hexagonal bolt (M6 x 12) (9a)
- Locking nut (M6) (9b)
- Transport wheels (2x) (11)
- Wheel axle (11a)
- Spring washer (2x) (11b)
- Washer (2x) (11c)
- Hexagon nut (M12) (11d)
- Spark plug wrench (A)
- Openended spanner SW10 (B)
- 12 V cable (C)

Proper use

The power generator is suitable for devices that are intended to operate on a 230 V / 400 V AC or 12 V DC voltage source.
With household devices and electronic devices, please check the suitability according to the respective manufacturer's specifications.
Attention! The power generator must not be connected to the mains supply as a domestic emergency power supply. It can cause damage to the power generator or other electrical devices.
AVR (Automatic Voltage Regulation):
The automatic voltage regulation system ensures that the voltage fluctuations of the power generator are within the range guaranteed by the power supply companies and thus do not pose a danger to electronic equipment. However, one should always check before use whether the consumption is suitable for operation with a power generator. In the case of extremely sensitive electronics, make enquiries with the manufacturer (such as televisions, mobile phones, tablets, laptops, etc.) beforehand, as a power generator produces a non-constant sine wave voltage due to the combustion engine.
The machine may only be used in the intended manner. Any use beyond this is improper. The user/operator, not the manufacturer, is responsible for damages or injuries of any type resulting from this.
An element of the intended use is also the observance of the safety instructions, as well as the assembly instructions and operating information in the operating manual.
Persons who operate and maintain the machine must be familiar with it and must be informed about potential dangers.
In addition, the applicable accident prevention regulations must be strictly observed. Other general occupational health and safety-related rules and regulations must be observed.
The liability of the manufacturer and resulting damages are excluded in the event of modifications of the machine.
Please note that our equipment was not designed with the intention of use for commercial or industrial purposes. We assume no guarantee if the device is used in commercial or industrial applications, or for equivalent work.

Safety instructions

We have marked points in the operating manual that impact your safety with this symbol: ⚠
Furthermore, the operating manual contains other important text sections that are marked with the word **"ATTENTION!".**

⚠ **Attention!** When using equipment, several safety warnings must be observed to prevent injuries and damage. For this reason, please carefully read this operating manual / safety instructions. If you hand the device

over to another person, please hand over this operating manual / safety instructions as well. We accept no liability for accidents or damage that occur due to a failure to observe this manual and the safety instructions.

 **DANGER**

A failure to observe these instructions poses an extreme danger of death or the risk of life-threatening injuries.

 WARNING

A failure to observe these instructions poses a danger of death or the risk of serious injuries.

 CAUTION

A failure to observe these instructions poses a minor to moderate danger of injury.

NOTE!

A failure to observe these instructions poses a risk of damage to the engine or other property.

1. It is prohibited to make any modifications to the power generator.
2. The manufacturer's preset speed must not be changed. Power generators or connected devices may be damaged.
3. Danger of poisoning! Exhaust gases, fuel and lubricants are poisonous, exhaust gases may not be inhaled.
4. Fire risk! Petrol and fuel vapours are highly flammable or explosive.
5. Engine exhaust gases are toxic. The power generator must not be operated in unventilated rooms. If the power generator is to be operated in well-ventilated rooms, the exhaust gases must be discharged directly outside via an exhaust gas hose.

   Additional requirements for protection against fire and explosion must also be observed. Toxic exhaust gases can also escape when operating an exhaust hose. Because of the risk of fire, the exhaust hose must never be directed at flammable materials.
6. Never operate the power generator in rooms with highly flammable substances.
7. Hot surfaces! Danger of burns, do not touch exhaust system and drive unit.
8. Do not touch any mechanically moving or hot parts. Do not remove any protective covers.
9. Protective equipment! Use suitable hearing protection when you are near the device.
10. Only original parts may be used for maintenance and accessories.
11. Repair and adjustment work may only be carried out by authorised specialist personnel.
12. Protect yourself from electrical hazards.
13. Never touch the power generator with wet hands.
14. Only use approved and appropriately identified extension cables for use outdoors (H07RN).
15. If extension leads or mobile distribution networks are used, the resistance value must not exceed 1.5 Ω. As a guideline value, the total length of lines for a cross-section of 1.5 mm² should not exceed 60 m, and for a cross-section of 2.5 mm², 100 m should not be exceeded.
16. Never operate the power generator during rain or snowfall.
17. Always switch off the engine during transport and refuelling.
18. Fuel is combustible and highly flammable. Do fuel the unit during operation. Do not fuel the unit when someone is smoking or near open flames. Do not spill any fuel.
19. Do not refuel or empty the fuel tank near open light, fire or flying sparks. Smoking prohibited!
20. Do not use the power generator in a thunderstorm. – **Danger of lightning strike!**
21. Provide a secure, level place for the power generator. Turning and tilting or changing location during operation are forbidden.
22. Place the power generator at least 1 m away from walls or connected devices.

23. Children must be protected by ensuring that they stay a safe distance away from the power generator.
24. Some parts of the reciprocating internal combustion engine are hot and may cause burns. The warnings on the power generator must be observed.
25. Values specified in the technical data under sound power level (LWA) and sound pressure level (LpA) represent emission levels and are not necessarily safe working levels. Since there is a correlation between emission and exposure levels, it cannot be reliably used to determine any additional precautionary measures that may be required. Factors influencing the current exposure level of the worker include the characteristics of the workspace, other noise sources, airborne noise, etc., such as the number of power generators and other adjacent processes and the length of time an operator is exposed to the noise. The permitted exposure level may also vary from country to country. Nevertheless, this information will enable the operator of the power generator to make a better assessment of the risks and hazards. If necessary, acoustical measurements should be taken after installation to determine the sound pressure level.
26. **Warning!** Comply with the electrical safety regulations applicable to the place where the power generators are used.
27. **Warning!** Consider the requirements and precautionary measures in case of re-supply of a system by power generators depending on the protective measures of this system and the applicable directives.
28. Power generators should only be used up to their rated power under the rated ambient conditions. If the power generator is used in conditions that do not comply with the reference conditions according to ISO 8528-8:2016, 7.1, and if the cooling of the engine or power generator is impaired, e.g. as a result of operation in restricted areas, a reduction in power is required.
29. Due to high mechanical loads, only durable rubber hose lines (per IEC 602454) or equivalent equipment should be used.
30. Observe the electrical safety regulations applicable to the place where the power generator is used.
31. Consider the requirements and precautionary measures in case of re-supply of a system by power generators depending on the protective measures of this system and the applicable directives.

Electrical safety

1. Prior to use, the generator and its electrical equipment (including lines and plug connectors) should be checked to ensure that there are no defects.
2. The power generating unit must not be connected to another power source such as the power supply of energy supply companies. In special cases where a reserve connection to existing electrical systems is provided, this must only be carried out by a qualified electrician who will take into account the differences between the operated equipment using the public mains and operation of the power generating unit. According to this part of ISO 8528, the differences in the operating manual must be specified.
3. Protection against electric shocks depends on the circuit breakers which are matched precisely to the power generating unit. If a circuit breaker must be replaced, this should be done using a circuit breaker with the same rating and performance characteristics.

ATTENTION: Use only E10 unleaded petrol as fuel.

⚠ Use of petrol

⚠ Danger to life! Petrol is toxic and highly flammable.

- Only store petrol in containers (canisters) designed and tested for this purpose. The fuel tank caps must always be properly screwed on and tightened. Defective caps must be replaced for safety reasons.
- Keep petrol away from sparks, open flames, permanent flames, heat sources and other sources of ignition. Do not smoke!
- Refuel outdoors only and do not smoke while refuelling.
- Before refuelling, switch off the combustion engine and let it cool down.
- Petrol must be filled before starting the combustion engine. While the combustion engine is running or if the device is hot, the fuel tank must not be opened and petrol must not be filled.
- Open the fuel filler cap carefully and slowly. Wait for the pressure to equalise and only then remove the fuel filler cap completely.
- Use a suitable funnel or filler pipe for refuelling so that no fuel can spill onto the combustion engine and housing or lawn. Do not overfill the fuel tank!
- To leave room for the fuel to expand, never fill the fuel tank beyond the lower edge of the filling nozzle. Observe additional information in the combustion engine user manual.
- If petrol has overflowed, do not start the combustion engine until the petrol-contaminated area has been cleaned. Avoid starting the engine until the fuel vapours have evaporated (wipe dry).
- Always wipe up spilled fuel immediately.
- If petrol has got on clothing, it must be changed.
- The tank cover must be properly screwed on and tightened after each refuelling operation. The device must not be put into operation without the original tank cover screwed on.
- For safety reasons, check the fuel line, fuel tank, fuel filler cap and connections regularly for damage, ageing (brittleness), tight fit and leaks, and replace if necessary.
- Only empty the fuel tank outdoors.
- Never use beverage bottles or similar to dispose of or store operating materials, such as fuel. People, especially children, could be tempted to drink from it.
- Never store the device with petrol in the fuel tank inside a building. Any fuel vapours produced can come into contact with naked flames or sparks and ignite.
- Do not place the device and fuel tank near heaters, radiant heaters, welding machines or other sources of heat.

Risk of explosion!
If a defect is detected on the fuel tank, the fuel filler cap or on fuelcarrying parts (fuel lines) during operation, the combustion engine must be switched off immediately. Then consult a specialist dealer.
Battery safety

- To avoid spark formation due to a short circuit, always disconnect the negative cable (-) from the battery first and reconnect it last.
- Never smoke during work on the battery. Always keep sparks, naked flames and other heat sources away from the battery.
- Special care must be taken when using jumper cables. Follow relevant instructions to avoid damage to the device (in particular, do not operate the starter for more than 10 seconds).
- Never open the battery and do not drop it.
- Always charge the battery in a closed room with good ventilation, dry and protected against the weather.
- Do not short-circuit battery connections.
- Deformed or defective (leaking) batteries must not be used and must be replaced and disposed of in an

environmentally friendly manner. Observe the countryspecific regulations.

- If the batteries are defective, liquid may leak out. Avoid contact! In case of accidental contact, rinse with water. If the liquid gets into your eyes, seek additional medical attention. Leaking battery fluid can cause skin irritation, burns and chemical burns.
- Regularly visually inspect the connection cables on the battery for damage. Have damaged cables replaced by a specialist.
- Never bypass the fuses. Never use a fuse with a rating other than the prescribed rating (amperes).

Residual risks
The device is state-of-the-art and has been built in accordance with the recognised technical safety rules. However, individual residual risks can arise during operation.

- Health hazard due to electrical power, with the use of improper electrical connection cables.
- Furthermore, despite all precautions having been met, some non-obvious residual risks may still remain.
- Residual risks can be minimised if the “Safety Instructions” and the “Intended Use” together with the operating manual as a whole are observed.
- Avoid accidental start-ups of the power generator.
- Use the device in the way that is recommended in this operating manual. This is how to ensure that your power generator provides optimum performance.

Technical data

Protection category	IP23M
Continuous output power Pn (COP) (230 V) (S1)	3,5 kW
Continuous output power Pn (COP) (400 V 3~) (S1)	5.0 kW
Max. power Pmax (230 V) (S2 5min)	3,68 kW
Max. power Pmax (400 V 3~) (S2 5min)	5.5 kW
Rated voltage Un	230 V~ / 400 V 3~
Rated current In (12 V DC)	8.3 A
Rated current In (230 V)	21.7 A
Rated current In (400 V 3~)	7.3 A
Frequency Fn	50 Hz
Performance class	G2
Active power factor φ	Single phase / Three phase: 1 / 0.8
Quality class	B
Drive motor type	4-stroke, 1 cylinder, air-cooled
Displacement	420 cm 3
Max. power (engine)	9,3 kW / 12,6 PS
Fuel	Super E10 petrol
Tank contents	25 l
Engine oil type	10W30
Oil volume (approx.)	110 ml
Weight	84 kg
Temperature Tmax	40°C
Spark plug type	F6RTC / F7RTC
Max. installation altitude (above sea level)	1000 m
Battery type	Lead acid
Battery capacity	17 Ah

Subject to technical changes!
Operating mode S1 (continuous operation)
The power generator can be operated continuously with the specified power.
Operating mode S2 (short-term operation)
The power generator may only be operated at maximum power for a brief time.

Information about the noise level measured in accordance with applicable standards (EN ISO 3744:1995, ISO 8528-10:1998):

Sound pressure LpA	76,8 dB
Sound power level LwA	96,2 dB
Measurement uncertainty KpA	1,1 dB

Wear hearing protection.
Excessive noise can result in a loss of hearing.

Unpacking

- Open the packaging and carefully remove the device.
- Remove the packaging material, as well as the packaging and transport safety devices (if present).
- Check whether the scope of delivery is complete.
- Check the device and accessory parts for transport damage. In the event of complaints the carrier must be informed immediately. Later claims will not be recognised.
- If possible, keep the packaging until the expiry of the warranty period.
- Familiarise yourself with the device by means of the operating manual before using for the first time.
- With accessories as well as wearing parts and replacement parts use only original parts. Spare parts can be obtained from your specialist dealer.
- When ordering, please provide our article number, the type and year of manufacture for your device.

⚠ **DANGER!**
The device and the packaging are not children's toys!
Do not let children play with plastic bags, films or small parts! There is a danger of choking or suffocating!

Assembly

⚠ **ATTENTION!**
Always make sure the device is fully assembled before commissioning!
Your machine is not fully assembled.

8.1 Mounting the transport handles (Fig. 6)

1. Fix the transport handles (3) on both sides with one hexagon bolt (M8 x 50) (3a) and one hexagon nut self-locking (3b) each.
2. Two plastic washers (3c) should be used between the frame and the transport handle (3).

8.2 Mounting the transport wheels (Fig. 4)

1. Guide the wheel axle (11a) through the guide (a) until it latches.
2. Guide the wheel (11) onto the wheel axle (11a) and fix it to the wheel axle (11a) with a washer (11c), a spring washer (11b) and a hexagon nut (M12) (11d). Use a combination spanner size 19 for this (not included in the scope of delivery).

3. Repeat the process on the other side.

8.3 Mounting the support foot (Fig. 5)

1. Tilt the power generator backwards onto the transport wheels (11) using the transport handles (3).
2. Screw the support feet (5) into the support foot holder (4).
3. Mount the holder support foot (4) at the bottom of the frame strut.
4. Secure the holder support foot (4) with two hex- agonal bolts (M8 x 20) (4a) and two locking nuts (M8) (4b).

Before commissioning

Electrical safety
Prior to use, the power generator and its electrical equipment (including lines and plug connectors) should be checked to ensure that there are no defects.
Never connect the power generator to the mains (socket).
The power lines to the consumer must be kept as short as possible.

⚠ **DANGER!**
Risk of fire and explosion!
When filling, fuel may ignite and even explode. This can lead to severe burns or death.
– Switch off the engine and let it cool down.
– Keep heat, flames and sparks away.
– Only fill up with fuel outdoors.
– Wear protective gloves.
– Avoid contact with skin and eyes.
– Start the device at a distance of at least 3 m from the fuel filling point.
– Watch out for leaks. If petrol is leaking, do not start the engine.

⚠ **WARNING!**
Health hazard!
Inhaling petrol/lubricant vapours may lead to severe health damage, loss of consciousness and, in extreme cases, to death.
– Do not inhale petrol/lubricant vapours.
– Operate the device outdoors only.

NOTE!
Device damage
Using the device without or with too little engine and gearbox oil can result in engine damage.
– Fill with petrol and oil before commissioning. The device is supplied without engine and gearbox oil.

NOTE!
Environmental damage!
Spilled oil can pollute the environment permanently. The liquid is highly toxic and can quickly lead to water pollution.
– Fill/empty oil only on level, paved surfaces.
– Use a filling nozzle or funnel.
– Collect drained oil in a suitable container.
– Wipe up spilled oil carefully immediately and dispose of the cloth according to local regulations.
– Dispose of oil as per local regulations.

⚠ **ATTENTION!**
Check before operation

- Check all sides of the engine for oil or fuel leaks.
- Check the engine oil level.
- Check the fuel level – Fill with a maximum of 25 litres of Super E10 petrol.

- Check the condition of the air filter.
- Check the condition of the fuel lines.
- Look for signs of damage.
- Check that all protective covers are in place and all screws are tightened.
- Ensure that the device is sufficiently ventilated.
- Make sure that the spark plug connector is attached to the spark plug.
- Disconnect any connected electrical devices from the power generator.

9.1 Earthing screw (6) (Fig. 1)

⚠ Attention! Electric shock!
– Do not use bare wires for earthing.
– Power generator must be safely earthed.
Earthing the housing is necessary to discharge static charging.

1. To do this, connect a cable on one side to the earthing screw (6) of the power generator and on the other side to an external earth (e.g. earth rod).

9.2 Connecting the battery (9) (Fig. 1)

1. Remove the battery holder by removing the two hexagonal screws with the enclosed open-end spanner SW10 (B).
2. Remove the battery (9) and take the protective caps off the terminals.
3. Then connect the red cable to the positive pole (+) and the black cable to the negative pole (-). To do this, use the M8x20 bolts (9a) and locking nuts (9b) and the 10 mm openended spanner (D) provided.
4. Place the protective caps back onto both terminals.
5. Push the battery (9) back into the power generator.
6. Remove the battery holder by removing the two hexagonal screws with the enclosed open-end spanner SW10 (B).

9.3 Top up oil (Fig. 4, 5)

⚠ **Attention!**
The power generator is delivered without engine oil. Therefore, ensure that you add oil before starting it up. Use 10W30 oil here.
Note:
Check the oil level regularly before commissioning. An oil level that is too low can damage the engine. The oil warning system is configured to avoid damage to the engine due to a lack of oil in the crankcase. Before the oil level in the crankcase can drop below the safety level, the oil warning system automatically cuts the engine off. If the oil warning system cuts the engine off, refill the engine oil. It is not possible to start the engine until the engine oil has been filled.

1. Place the device on a level, even surface.
2. Remove the ignition key (14) from the ignition lock (14a).
3. Unscrew the oil dipstick (21).
4. Use an oil filling bottle (not included) to top up the engine oil. Note the max. filling capacity of 110 ml. Carefully fill the oil up to the lower edge of the filling port.
5. Wipe the oil dipstick (21) with a clean, lintfree cloth.

6. Screw the oil dipstick (21) back into the filler neck until it reaches the stop.
7. Pull the oil dipstick (21) out and read the oil level in the horizontal position. The oil level must be between L (low) and H (high) on the oil dipstick (21).
8. If the oil level is too low, repeat the process.
9. Then screw the oil dipstick (21) in again.

9.4 Filling in fuel (Fig. 6)

⚠ **Attention!**
The power generator is delivered without petrol. It is therefore essential to fill with petrol before commissioning. Use Super E10 petrol for this.

1. Unscrew the fuel filler cap (1).
2. Use a suitable funnel (not included) to fill a maximum of 25 l of E10 unleaded petrol into the fuel tank.
3. Ensure that the fuel tank is not overfilled and that no petrol is spilled. Always use a fuel filter insert. Clean up spilled petrol immediately and wait until the fuel vapours have evaporated (wipe dry).
4. Check the sight glass (2) while filling in the fuel. The red mark in the sight glass (2) indicates the minimum fill level.
5. Retighten the fuel filler cap (1).

⚠ **ATTENTION!**
Refuel in a well-ventilated area with the engine stopped.
If the engine was in operation immediately before, allow it to cool first. Never refuel the engine in a building where the fuel vapours may come into contact with flames or sparks.
Petrol is highly inflammable and explosive. When handling fuels, you may suffer burns or other severe injuries.

Operation

Before starting the engine, make sure that the power of the consumers corresponds to the capacities of the power generator. Do not exceed the rated power. Do not connect any consumers before starting the engine!

⚠ **Attention!** Danger of poisoning!
– Only use the device outdoors and never in closed or poorly ventilated rooms.
Note: The battery (9) must be charged to start the power generator with the ignition key (14). Otherwise, the power generator must be started as described in section 10.2.

10.1 Starting the engine with the ignition key (14) (Fig. 1, 2)

1. In cold conditions, move the choke lever (19) to the CLOSED position by moving the lever to the right. In warm conditions, move the choke lever (19) to the OPEN position by moving the lever to the left.
2. Set the fuel valve (18) to the “ON” position.
3. Insert the ignition key (14) into the ignition (14a).
4. Turn the ignition key (14) to the “START” position and hold it in this position until the device starts up.
5. If the engine does not start even after several attempts, start the device as described in section 10.3.
6. Return the choke lever (19) to the OPEN position while the engine warms up.

10.2 Starting the engine with the pull starter (17) (Fig. 1, 2)
Attention! Never allow the pull starter (17) to whip back. This can result in damage.

1. Set the fuel valve (18) to “ON”.
2. Insert the ignition key (14) into the ignition (14a).
3. Rotate the fuel valve (14) to the “ON” position.
4. Now pull the pull starter (17) and the engine should start. If the engine does not start, repeat the process.
5. If the engine does not start even after several attempts, read the “Troubleshooting” chapter.

Note:
If the engine is being started for the first time, several tries are required to start until the fuel has been delivered from the fuel tank to the engine.
Note: If the device’s battery (9) is empty, the engine can only be started using the pull starter (17). If the battery (9) is deeply discharged, proceed as described in sections 12.5 and 14.2.

10.3 Switch off the engine (Fig. 1, 2)

ATTENTION:
Do not switch off the power generator when the connected loads are in operation.
Allow the power generator to run for a short time (approx. 30 seconds) without load before switching it off so that it can “cool down”.

1. Rotate the fuel valve (14) to the” OFF” position.
2. Remove the ignition key (14) and store it in a safe place.
3. Set the fuel valve (18) to the “OFF” position.
4. Disconnect the power consumers from the device.

Note: You can only remove the ignition key (14) when the “STOP” position is selected.

10.4 Voltage indicator (15) (Fig. 1)

The voltage indicator (15) is active when the engine is running and shows the output voltage.

10.5 Overload protection – circuit breaker 400 V (8) and circuit breaker 230 V (23) (Fig. 1)

The overload protection becomes active if the power consumption is too high and switches off the 230 V or 400 V socket. The circuit breakers 400 V (8) or 230 V (8a) are automatically set to the “OFF” position.

1. Switch the device off as described in section 10.3.
2. Disconnect the consumers from the device.
3. Wait a minute.
4. Set the 400 V circuit breaker (8) or the 230 V circuit breaker (8a) to “ON”.

Attention! Defective circuit breakers may only be replaced with identical circuit breakers with the same power data. Contact customer service for this.

10.6 “RESET” button (12) for 12 V (Fig. 1)

If the overload protection has been triggered, the “RESET” button (12) restores the output power of the power generator. It is then not necessary to restart the engine.

1. Wait a minute.
2. Press the “RESET” button (12).

10.7 Charging external devices (Fig. 1, 3)

⚠ **DANGER!**
Danger due to incorrect charging.

1. Plug the adapter cable with 12 V terminals (C) into the 12 V DC connection (13) provided for this.

Cleaning

Before carrying out any cleaning or maintenance work, switch off the engine and remove the ignition key (14) from the ignition lock (14a). In addition, remove the spark plug connector (20) from the spark plug (20a).
ATTENTION! Danger of burning! Wait until the device has cooled down before performing cleaning or maintenance work.

11.1 Cleaning

Keep protective devices, air vents and the engine housing as free of dust and dirt as possible. Rub the device clean with a clean cloth or blow it off with compressed air at low
pressure. We recommend that you clean the device directly after every use.
Clean the device at regular intervals using a damp cloth and a little soft soap. Do not use any cleaning products or solvents; they could attack the plastic parts of the device. Make sure that no water can penetrate the device interior.

Maintenance

WARNING!
Always wear protective gloves and a mask during maintenance work!

12.1 Maintenance plan

Always comply with the following maintenance intervals in order to ensure problem-free operation.
ATTENTION! At initial start-up, engine oil and fuel must be filled.

	Before every use	after operating for 20 hours	after operating for 50 hours	after operating for 300 hours
Checking the engine oil	X			
Changing the engine oil			X	
Checking the air filter	X			Change filter insert if necessary
Cleaning the air filter			X	
Visual inspection of the device	X			
Cleaning the spark plug		first time, then every 50 hours	Gap: 0.7 – 0.8 mm, replace if necessary	
Check and readjust the throttle valve				X*
Cleaning the cylinder head				X*
Adjust the valve play				X*
Attention: Only have points “X*” carried out by an authorised specialist company.				

12.2 Checking the oil level (Fig. 7)

1. Proceed as described in 9.3.

12.3 Oil change

Change the engine oil after 20 operating hours, then after 50 hours or every three months.
The engine oil change should be carried out while the engine is at operating temperature.

1. Place the power generator on a level, even surface.
2. Provide a collection container (not included in the scope of delivery).
3. Remove the oil dipstick (21). Remove the oil drain screw (22) with a 10 mm openended spanner (B) to let the oil drain out.
4. Screw the oil drain screw (22) back in.
5. Fill up with new engine oil (max. 110 ml).
6. Screw the oil dipstick (21) in again.
7. Dispose of the used oil properly.

12.4 Air filter (Fig. 9, 10)
NOTE!
Risk of damage!
Operating the engine without a filter element or with a damaged filter element can cause engine damage.
– Never run the engine without the air filter element or with a damaged filter element. This would allow dirt into the engine, which would result in severe damage to the engine.
Clean the air filter (23) every 50 operating hours, replace if necessary.

1. Remove the grip screw (23a) (Fig. 9).
2. Open up the air filter housing (23).
3. Remove the foam insert (23b).
4. Do not use harsh cleaners or petrol to clean the filter.
5. Clean the elements by knocking them out on a flat surface. If heavily soiled, wash with soapy water, then rinse with clean water and allow to air dry.
6. The re-assembly takes place in reverse order.

12.5 Charge the battery (9) with a car battery charger (Fig. 1)

⚠ **DANGER!**
Danger due to charging the battery incorrectly!
If the charging voltage is too high, there is a risk of the battery (9) exploding.
Always remove the ignition key (14) from the ignition (14a) when working on the battery (9).
– The charging current of the battery charger must not exceed 5 A and the charging voltage must not exceed 14.4 V.

1. Remove the battery (9) as described in Section 13.2.
2. Connect the battery (9) to a suitable car battery charger. Then connect the red cable to the positive terminal (+) and the black cable to the negative terminal (-) of the charging unit.
3. Charge the battery (9) for at least 5 hours.

Attention!
Danger of short circuit!
– To avoid a short circuit, always disconnect the negative cable (-) from the battery (9) first and reconnect it last.
– When connecting/disconnecting the battery connection cable (17a), make sure that the poles (+/) do not touch each other and/or the frame.
12.5.1 Spark plug (Fig. 11)

⚠ **ATTENTION:** Only replace the spark plug when the engine is cold!
Check the spark plug (20a) for contamination for the first time after 20 operating hours and clean it with a copper wire brush if necessary. Then maintain the spark plug (20a) every 50 operating hours.

1. Pull off the spark plug connector (18) with a twisting motion.
2. Remove the spark plug (20a) with the enclosed spark plug wrench (A).
3. Remove any dirt from the base of the spark plug (20a).
4. Visually inspect the spark plug (20a). Remove any deposits present using a wire brush.
5. Check the spark plug gap. Set the electrode gap to 0.7 to 0.8 mm with a feeler gauge.
6. The re-assembly takes place in reverse order.

NOTE
A loose spark plug can overheat and cause damage to the engine. Tightening the spark plug too much can damage the thread in the cylinder head.

12.6 Clean fuel filter insert

Note: The fuel filter insert is a filter cup which is located directly under the fuel filler cap (1) and filters all the fuel filled in.

1. Rotate the fuel valve (14) to the" OFF" position.
2. Open the fuel filler cap (1).
3. Remove the fuel fi lter insert. Clean it in a nonfl ammable solvent or a solvent with a high flash point.
4. Reinsert the fuel filter insert.
5. Close the fuel filler cap (1).

Ordering spare parts

Please provide the following information in the event of any enquiries:

- Machine data – type plate
- Engine data – type plate

Important note in the case of repairs:
For return delivery of the device for repair, please ensure for safety reasons that it is free of oil and fuel when it is sent to the service centre.

13.1 Ordering spare parts

Please provide the following information when ordering spare parts:

- Device type
- Device article number

Service information
Note that the following parts on this device are subject to natural or usage-related wear, or that the following parts are required as consumables.
Wearing parts*: Spark plug, air filter
* may not be included in the scope of delivery!
Spare parts and accessories can be obtained from our Service Centre. To do this, scan the QR code on the front page.

Spare parts:
Battery – article no.: 5906203701

Storage

⚠ DANGER!

Risk of fire and explosion!

Storing the product near potential sources of ignition can result in a fire or an explosion. This can lead to severe burns or death.

– Eliminate possible sources of ignition, such as furnaces, hot water boilers with gas, gas dryers, etc.

NOTE!

Risk of damage!

If the product is not stored properly, the engine can be damaged.

– Store the product protected against dirt, dust and moisture.

14.1 Preparation for storage

1. Empty the fuel tank using a fuel extraction pump (see section 13.3).
   Warning: Do not remove the petrol in enclosed spaces, near fire or when smoking. Petrol fumes can cause explosions and fire.
2. Carry out an oil change (see section 11.3).
3. To do so, remove the used engine oil from a warm engine and refill with fresh oil.
4. Remove the spark plug (20a).
5. Fill the cylinder with approx. 20 ml of oil from an oil can.
6. Pull the pull starter (17) slowly so that the oil protects the inside of the cylinder.
7. Screw the spark plug (20a) back in.
8. The ignition key (14) must always be removed from the ignition lock (14a) and stored securely to prevent unauthorised or improper use by children and other persons.
9. When the device is taken out of service for an extended period of time, before starting work on or near electrical components, disconnect the battery connection cable. We recommend removing the battery (9) and storing it fully charged in a dry and locked room.
10. Store the device in a well-ventilated place or area.

14.2 Removing the battery (9) (Fig. 1)

1. Remove the battery holder by removing the two hexagonal screws with the enclosed open-end spanner SW10 (B).
2. Remove the battery (9).
3. Pull the protective caps from both terminals of the battery (9) and store them safely.
4. Remove the two pole cables from the battery (9) with a Phillips screwdriver (F) (not enclosed).

Ensure that batteries are secured against unauthorised use (e.g. by children).

Charge the battery (9) during the winter 1-2 times to ensure that the full charging capacity is maintained. Incorrect storage can damage the battery (9). In this case, the warranty is void.

14.3 Drain petrol with a petrol extraction pump

In the case of storage over a longer period of time, the petrol must be drained.

1. Hold a collection container under the hose of the petrol extraction pump (not included in the scope of delivery).
2. Unscrew the fuel filler cap (1). The fuel filler cap (1) is connected to an anti-loss device in the fuel tank and thus cannot fall off.
3. Remove the fuel filter insert.
4. Push the hose of the petrol extraction pump into the fuel tank and drain out the petrol completely using the petrol extraction pump.

5. Reinsert the fuel filter insert.
6. Retighten the fuel filler cap (1).

Transport

1. Empty the fuel tank using a fuel extraction pump (see section 13.3).
2. If operational, keep the engine running until the remaining petrol has been used up.
3. Drain the engine oil from the warm engine (see section 11.3).
4. Remove the spark plug connector (20) from the spark plug (20a).
5. The power generator can be transported simply and easily using the trolley function. To do this, fold the transport handles (3) out and up and pull the device to the desired location.
6. Secure the device against slipping using a tension strap, for example.

Disposal and recycling

Notes for packaging


The packaging materials are recyclable. Please dispose of packaging in an environmentally friendly manner.
Notes on the electrical and electronic equipment act [ElektroG]


Electrical and electronic appliances do not belong in household waste, but should be collected and disposed of separately!

- Used batteries or rechargeable batteries that are not installed permanently in the old appliance must be removed non-destructively before disposal!

Their disposal is regulated by the battery act.

- Owners or users of electrical and electronic devices are legally obliged to return them after use.
- The end user is responsible for deleting their personal data from the old device being disposed of!
- The symbol of the crossed-out dustbin means that waste electrical and electronic equipment must not be disposed of with household waste.
- Waste electrical and electronic equipment can be handed in free of charge at the following places:
  – Public disposal or collection points (e.g. municipal works yards)
  – Points of sale of electrical appliances (stationary and online), provided that dealers are obliged to take them back or offer to do so voluntarily.
  – Up to three waste electrical devices per type of device, with an edge length of no more than 25 centimetres, can be returned free of charge to the manufacturer without prior purchase of a new device from the manufacturer or taken to another authorised collection point in your vicinity.
  – For additional takeback conditions of the manufacturers and distributors, please contact the respective customer service.
- In the case of delivery of a new electrical device by the manufacturer to a private household, the latter may

arrange for the free collection of the old electrical device upon request from the end-user. Get in contact with the manufacturer's customer service.

- These statements only apply to devices installed and sold in the countries of the European Union and which are subject to the European Directive 2012/19/EU. In countries outside the European Union, different regulations may apply to the disposal of waste electrical and electronic equipment.

Information on the battery act [BattG]

Used batteries and batteries do not belong in household waste, but must be collected or disposed of separately!

- For safe removal of batteries or rechargeable batteries from the electrical device and for information on their type or chemical system, please refer to the additional information in the operating or assembly instructions.
- Owners or users of batteries and rechargeable batteries are legally obliged to return them after use. The return is limited to household quantities.
- Used batteries may contain pollutants or heavy metals that can harm the environment or human health. Recycling used batteries and using the resources they contain helps to protect these two important issues.
- The symbol of the crossed-out dustbin means that batteries and rechargeable batteries must not be disposed of with household waste.
- If the signs Hg, Cd or Pb are also located below the dustbin symbol, this stands for the following:
  – **Hg:** Battery contains more than 0.0005% mercury
  – **Cd:** Battery contains more than 0.002% cadmium
  – **Pb:** Battery contains more than 0.004% lead

Rechargeable batteries and batteries can be returned free of charge to the following places:
– Public disposal or collection points (e.g. municipal works yards)
– Sales points for batteries and rechargeable batteries
– Take-back points of the common take-back system for old device batteries
– Take-back point of the manufacturer (if not a member of the common takeback system)

- These statements are only valid for rechargeable batteries and batteries sold in the countries of the European Union and subject to the European Directive 2006/66/EC. In countries outside the European Union, different regulations may apply to the disposal of rechargeable batteries and batteries.

Removing the battery before disposing of the device

- The integrated battery must be removed and disposed of separately in an environmentally friendly manner before disposing of the device.
- Mask off the contacts and package the battery such that it cannot move in the packaging. Please also observe any further national regulations.

Contact your local refuse disposal authority for more details of how to dispose of your worn-out electrical devices.

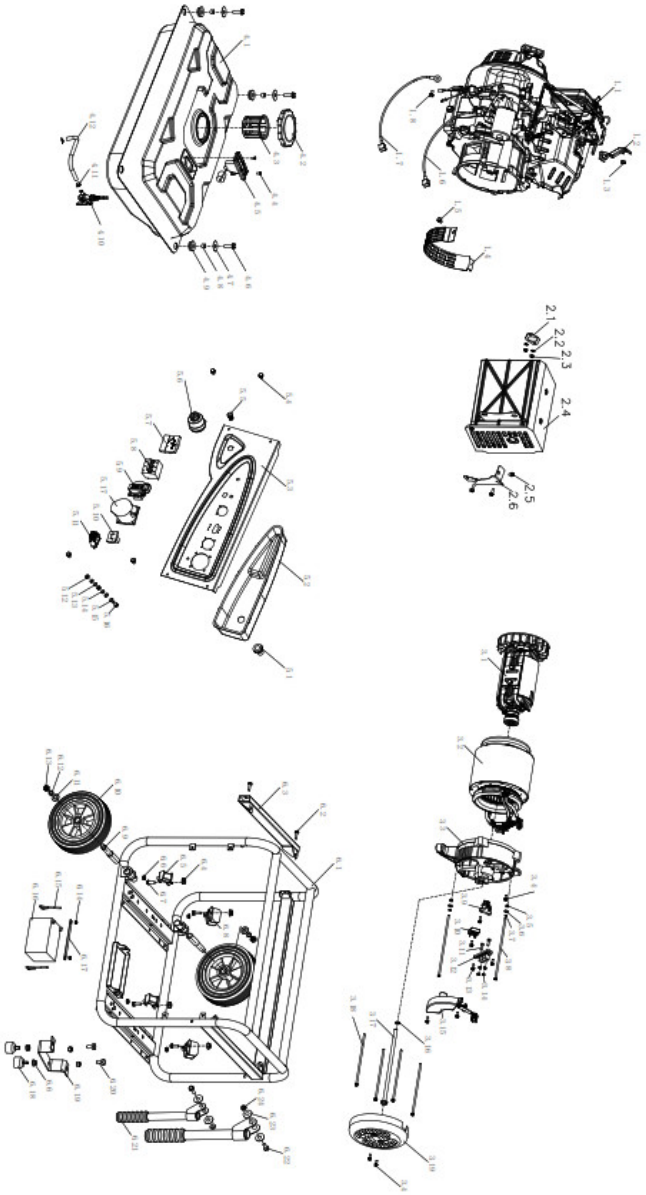
Fuels and oils

- Before disposing of the unit, the fuel tank and the engine oil tank must be emptied!

- Fuel and engine oil do not belong in household waste or drains, but must be collected or disposed of separately!
- Empty oil and fuel tanks must be disposed of in an environmentally friendly manner.

Troubleshooting

Fault	Cause	Measure
Engine cannot b e started	Automatic oil cut-off trips	Check oil level, fill with engine oil
	Spark plug (20a) sooty	Clean or replace spark plug (20a).
	No fuel	Top up with fuel.
	Device battery (9) is flat	If the device’s battery (9) is empty, the engine can only be starte d using the pull starter (17). If the battery (9) is deeply discharged, proceed as described in s ections 12.5 and 14.2.
	Air filter (23) dirty	Clean or replace the air filter (23).
Power genera-f or insufficient or no voltage	Electronics defective.	Repair by an authorised service centre.
	Overload protection switc h tripped.	Restart the power generator, reduce consumers.
	Air filter (23) dirty.	Clean or replace the air filter (23).



CE Declaration of Conformity

Scheppach GmbH, Günzburger Str. 69, D-89335 Ichenhausen
hereby declares the following conformity under the EU Directive and standards for the following article
Brand: SCHEPPACH
Article name: GENERATOR – SG7300
Art. no.: 5906227942

	2014/29/EU		2004/22/EG		89/686/EWG_96/58/EG
	2014/35/EU		2014/68/EU		90/396/EWG
x	2014/30/EU	x	2011/65/EU*		

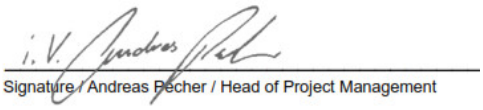
x	2006/42/EG
	Annex IV Notified Body: Notified Body No.: Certificate No.:

x	2000/14/EG_2005/88/EG
	Annex V
x	**Annex VI** Noise: measured L_{WA} = 96,2 dB; guaranteed L_{WA} = 97 dB P = 5.0 KW Notified Body: TÜV SÜD Industrie Service GmbH, Westendstrasse 199, 80686 München, Germany Notified Body No.: 0036

x	2016/1628/EU
	Emission. No: e24*2016/1628*2018/989SYB1/P*0053*01

Standard references:
EN ISO 8528-13:2016; EN 61000-6-1:2007; EN 55012:2007+A1:2009
This declaration of conformity is issued under the sole responsibility of the manufacturer.
* The object of the declaration described above fulfils the regulations of the directive 2011/65/EU of the European Parliament and Council from 8th June 2011, on the restriction of the use of certain hazardous substances in

electrical and electronic equipment.
Ichenhausen, 29.11.2022
First CE: 2021
Subject to change without notice



Documents registrar: Tobias Ihle
Günzburger Str. 69, D-89335 Ichenhausen

Warranty

Apparent defects must be notified within 8 days from the receipt of the goods. Otherwise, the buyerís rights of claim due to such defects are invalidated. We guarantee for our machines in case of proper treatment for the time of the statutory warranty period from delivery in such a way that we replace any machine part free of charge which provably becomes unusable due to faulty material or defects of fabrication within such period of time. With respect to parts not manufactured by us we only warrant insofar as we are entitled to warranty claims against the upstream suppliers. The costs for the installation of the new parts shall be borne by the buyer. The cancellation of sale or the reduction of purchase price as well as any other claims for damages shall be excluded.

www.scheppach.com

Documents / Resources

	scheppach SG7300 Generator [pdf] Instruction Manual 5906227942, SG7300 Generator, SG7300, Generator

References

- scheppach | scheppach
- Kontakt & Service | scheppach | scheppach