

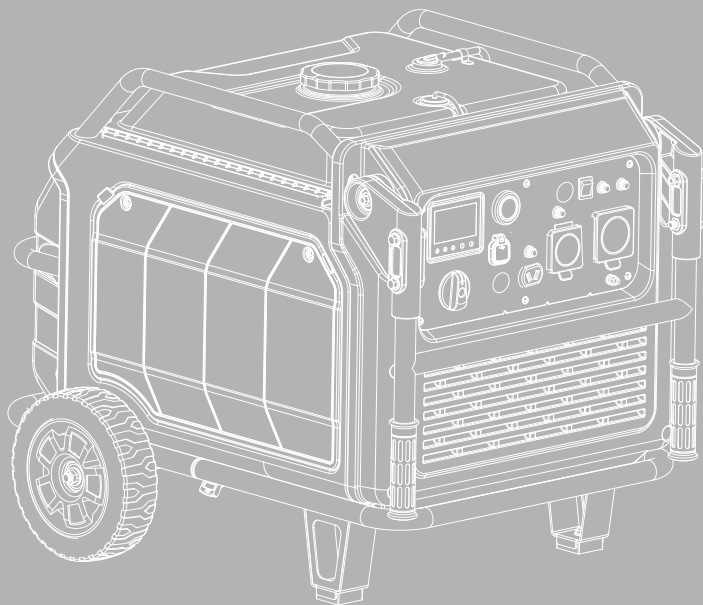
POWER GENERATOR



F 6001 iSG

inverter

USER MANUAL



EN

ORIGINAL MANUAL



Deklaracja zgodności WE / EC Declaration of Conformity

deklarujemy z pełną odpowiedzialnością, że agregat prądotwórczy:
hereby we declare that the following generator set

Typ / Type: F 6001 iSG
Kod / Code: 48951
Rok produkcji / Year 2025
Nazwa i adres producenta: Fogo Sp. z o.o.
Distributor's name and address: ul. Świąciechowska 36, Wilkowice
64-115 Świąciechowa

Zastosowane normy: PN-EN ISO 3744:2011, ISO 8528-13:2016-07
Standards used:

Zastosowana procedura oceny zgodności: Sprawozdanie zgodności urządzenia z zasadniczymi wymaganiami przy udziale jednostki notyfikowanej, zgodnie z dyrektywą 2000/14/WE
Conformity assessment procedure used: Verification of conformity with the essential requirements with the participation of the notified body (attachment V1 to directive 2000/14/EC)

*do którego odnosi się niniejsza deklaracja, spełnia wymagania:
to which this declaration pertains, meets the following requirements:*

Dyrektywy:	Dyrektywa Maszynowa / Machinery Directive	2006/42/WE
EC Directives	Dyrektywa Niskiego Napięcia / Low Voltage Directive	2014/35/UE
	Kompatybilności Elektromagnetycznej / Electromagnetic Compatibility Directive	2014/30/UE
	Dyrektywa w sprawie emisji hałasu / Noise emission Directive	2000/14/WE
	wraz ze zmianą / with amendment	2005/88/UE
	Dyrektywa w sprawie ograniczenia stosowania niektórych niebezpiecznych substancji w sprzęcie elektrycznym i elektronicznym	2011/65/UE
	Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment	

Jednostka notyfikowana: Sieć Badawcza Łukasiewicz - Krakowski Instytut Technologiczny
Notified unit: Jednostka Notyfikowana Nr 1455
ul. Zakopiańska 73, 30-418 Kraków

Gwarantowany poziom mocy akustycznej:
Guaranteed level of acoustic power:

LWA = 97 dB(A)

Osoba odpowiedzialna za przygotowanie i przechowywanie dokumentacji technicznej:
Person responsible for technical documentation

Andrzej Kardach

Osoba upoważniona do podpisania deklaracji:
Authorized person to sign the declaration:
DOMINIK ZACHARSKI

1.07.2025

Wilkowice

Dear Customer

Thank you for your trust in our equipment and for purchasing our high-quality FOGO® power generator. We are convinced that in cooperation with world-leading manufacturers of components and application of innovative technological solutions, we have created a product that sets standards in terms of quality, safety and reliability. We hope that our product will meet your requirements in everyday use, ensuring long-lasting, trouble-free operation.

FOGO Sp. z o.o.



**Before the first start of the device,
it is absolutely necessary to read the manual!!**

Safety of the user and all persons staying near to the device is very important. Therefore, before using the power generator, it is essential to read these instructions. The buyer of the power generator must ensure that this manual is always available for its operator and that every user reads the manual before starting any activities related to device operation.

Fogo power generators are designed and manufactured in accordance with current European directives, which we confirm by the declaration of conformity. In order to confirm that the power generators manufactured by our company meet the EU safety requirements, we apply an additional conformity assessment procedure carried out by an external Notified Body

FOGO® devices comply with the relevant European standards and other specific requirements in terms of the construction, operational safety and environmental protection.

Safety warnings

Please carefully read any messages preceded by the symbol  or the word INFORMATION.

DANGER

- Failure to follow instructions **WILL CAUSE DEATH or SERIOUS INJURY**

WARNING

- Failure to follow these instructions **MAY RESULT IN DEATH or SERIOUS INJURY.**

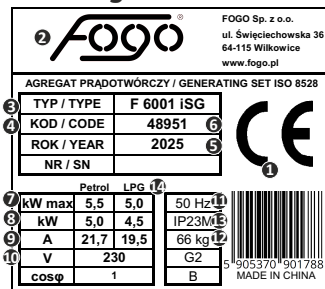
CAUTION

- Failure to follow the instructions **MAY CAUSE INJURY.**

NOTE

- Failure to follow the instructions may cause damage to the generator or devices connected to it.

Description of the nameplate and identification of the generator set

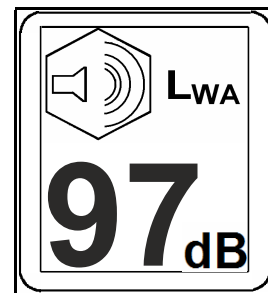


Identification of the power generator set

F	600	1	ISG
Brand name			
F - FOGO			
Power designation			
Power system			
0 - 3-phase			
1 - 1-phase			
Options			
i - inverter			
S - soundproof version ,			
E - electric start			
X - specjal			
A - electric start, remote start ready			
G - remote start ready, dual fuel			

RATING PLATE

- CE mark confirming compliance with the requirements and European Directives,
- Manufacturer's name and address,
- Model / Type,
- Manufacturer's code
- Year of production,
- Serial number of the device,
- Max power [kW],
- Nominal power [kW],
- Current [A],
- Voltage [V],
- Frequency [Hz],
- Weight of power generator [kg],
- IP protection class
- Ratings for LPG supply



The level of noise emitted to the environment according to the Directive 2000/14/EC

Table of contents

Safety warnings	36	5.6 Grounding	48
Description of the rating plate and identification of the inverter	36	6. Operation	49
1. Safety information	38	6.1 Starting the generator	49
1.1 Introduction	38	6.2 Engine break-in procedure	49
1.2 Warning signs	38	6.3 Shutting off the generator	50
1.3 Safety Rules	39	6.4 Alternating current socket (AC)	51
2. Location of information plates	41	6.5 Charging the battery	52
3. Unit description	42	6.6 Scope of application	53
3.1 Unpacking	42	7. Maintenance	54
3.2 Description	42	7.1 Spark plug inspection	55
3.3 Control panel	43	7.2 Carburettor adjustment	55
3.4 Digital display	43	7.3 Changing the engine oil	56
4. Control function	44	7.4 Air filter	56
4.1 Fuel switch	44	7.5 Muffler strainer and spark arrestor	57
4.2 Low oil level warning light	44	7.6 Fuel tank filter	57
4.3 Running light and RESET button	44	8. Storage	58
4.4 AC/DC Breakers and receptacles	45	8.1 Draining the fuel tank	58
4.5 ECO control, engine smart control (ESC)	45	8.2 Engine	58
4.6 Earthing	45	8.3 Battery	58
4.7 ATS Switch / Control interface	45	9. Troubleshooting and fault elimination	60
5. Generator preparation	46	10. Technical specification	60
5.1 Add/check oil	46	11. Wiring diagram	61
5.2 Fuel - gasoline	46	12. Warranty terms	62
5.3 Fuel - liquid petroleum gas (LPG)	47	13. Decommissioning and disposal	63
5.4 Fuel automatic selection	47		
5.5 Battery connection	48		

1. Safety information

Safety of the user is a priority for FOGO.®

FOGO® devices comply with the relevant European standards and other specific requirements in terms of the construction, operational safety and environmental protection. Each power generator is provided with CE declaration of conformity with the measuring sheet and technical specification of the unit.

1.1. Introduction

Safety is a combination of common sense, staying alert, and knowing how your tool works. This manual contains important information regarding the generator's potential safety concerns, as well as preparation, operation, and maintenance instructions. Before operating this generator, be sure to read and observe all warnings and instructions both on the generator labels and in this instruction manual. Failure to follow all instructions listed below may result in personal injury.



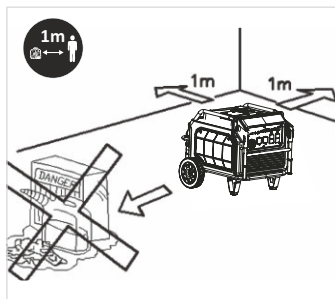
1.2. Warning signs



Never use inside buildings



Never use in wet conditions



Keep at least 1 m away from flammable materials and other obstacles



Never smoke while refuelling



Do not spill fuel while refilling



Stop the engine before refueling



Never connect the device to the home electrical system by yourself

1.3. Safety Rules

OPERATING ENVIRONMENT

1. Using a generator indoors can kill you in minutes.
2. Do not smoke near the generator.
3. Do not operate near open flame, heat, or flammable materials.
4. Do not expose the generator to rainy or wet conditions; doing so significantly increases the risk of electrical shock.
5. Always operate the generator on a dry, firm, level surface.
6. The generator should have at least 1 m of clearance from buildings or other equipment during operation.
7. Do not allow children or non-qualified persons to operate the generator.

GENERATOR PREPARATION

1. Always ground the generator before using it to maximize safety.
2. Do not overfill fuel tank, as gasoline may expand during operation.
3. If any part of the generator, electrical device or power cord is broken, damaged, or defective, make sure it is repaired or replaced before operation.
4. If connecting the generator to a building's electrical system for standby power, you **MUST** consult a qualified electrician and install a transfer switch.
5. Never modify the generator in any way.

GENERATOR OPERATION

1. **Only use the generator for its intended purposes.** Modifying or using the generator for operations for which it was not designed may cause hazards and personal injury.
2. **Do not touch bare wires or receptacles (outlets).**
3. **Do not exceed the wattage capacity of the generator by plugging in more electrical devices than the unit can handle.** This could damage the generator and/or connected electrical devices. Check the operating voltage and frequency requirements of all electrical devices prior to plugging them into the generator.
4. **Allow generator to run for several minutes before connecting electrical devices.** Do not start or stop the engine with electrical devices plugged in to the receptacles. Failure to do so could damage the generator and/or connected electrical devices.
5. **Do not turn on electrical devices until after they are connected to the generator.**
6. **Generators vibrate in normal use.** During and after the use of the generator, inspect both the generator as well as extension and power supply cords for damage resulting from vibration.
7. **Do not touch hot parts.** This generator produces heat when running. Temperatures near exhaust can exceed 65°C. Allow generator to cool down after use before touching engine or areas of the generator that become hot during use.
8. **Turn off all connected electrical devices before stopping the generator.**

9. **Always turn generator off before refuelling. Allow generator to cool for at least 2 minutes before removing fuel cap.** Loosen cap slowly to relieve pressure in tank.
10. **Turn the engine switch to "OFF" position when the engine is not running.**
11. **Empty fuel tank before storing or transporting the generator.** Do not store generator or gasoline near furnaces, water heaters, or any other appliances that produce heat or have automatic ignitions. Store the generator and fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.

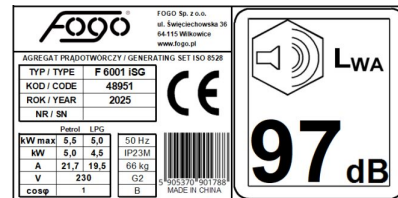
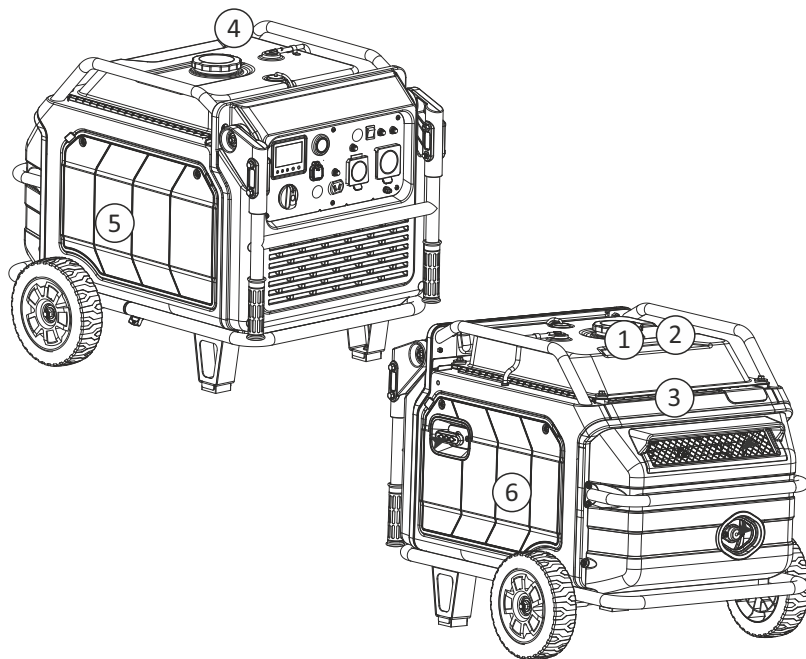
WARNING

CAUTION: Misuse of this generator can damage it or shorten its lifespan.

2. Location of information plates

Before using the generator, read the following labels carefully.

TIP: Labels with instructions should be kept legible and replaced if necessary.

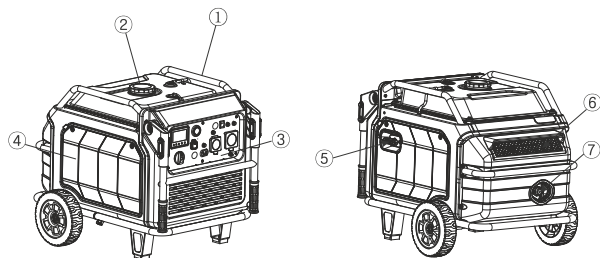


3. Unit Description

3.1 Unpacking

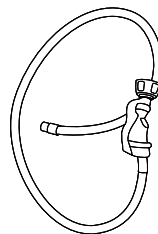
With the help of other person, carefully remove the generator from the packaging and place it on a sturdy, flat surface. Make sure to take out all contents and accessories. Do not discard the packaging until everything is removed.

3.2 Description

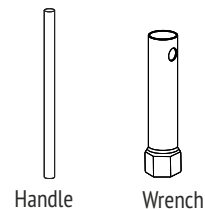


1. Carrying handle
2. Fuel tank cap
3. Control panel
4. Spark plug maintenance cover
5. Recoil starter
6. Louver
7. Muffler

Accessories – Regulator Hose Assembly



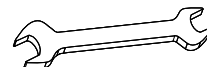
Spark Plug Tools



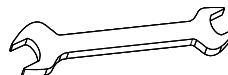
Assembly Tools



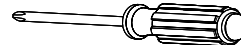
8mm / 10mm Wrench



14mm / 17mm Wrench

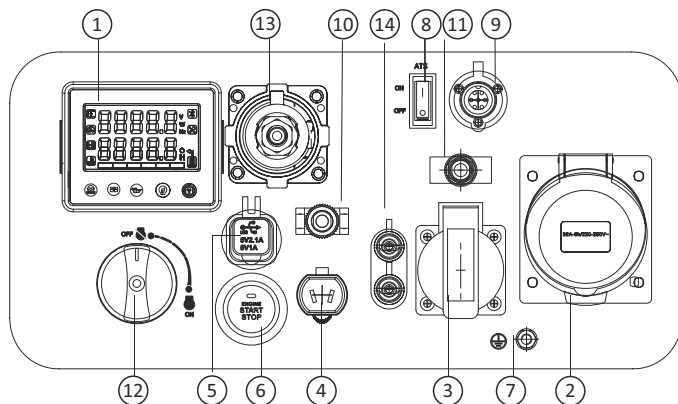


19mm Wrench



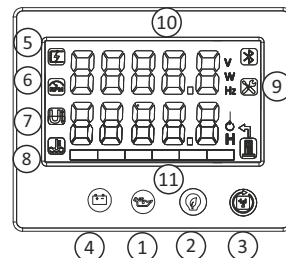
Screwdriver

3.3 Control Panel



1. Digital display
2. AC receptacle 230V 32A
3. AC receptacle 230V 16A
4. DC receptacle
5. USB
6. Engine START-STOP button
7. Ground terminal
8. ATS control socket
9. ATS switch
10. DC protection fuse
11. AC 230V 16A fuse
12. Fuel switch
13. LPG Inlet Connection
14. Parallelling connection socket

3.4 Digital display

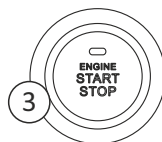
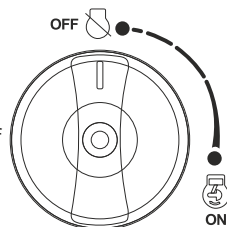


1. Oil level warning lamp
2. ECO button / lamp
3. Running & RESET button / lamp
4. Battery lamp
5. Overload flashing lamp
6. Abnormal speed lamp
7. Low/high output voltage lamp
8. High inverter temperature lamp
9. Maintenance
10. Voltage, frequency, power value display
11. Fuel level, running time, cumulative running hours display

4. Control function

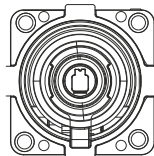
4.1 Fuel switch

- ① Engine switch/fuel valve in „OFF“ position (deactivated). The ignition circuit is turned off. The fuel is closed. Engine can not be started.
- ② Engine switch/fuel valve in „ON“ position. The ignition circuit is switched on. The fuel is open. Engine can be started.
- ③ Start button for starting the engine. Choke is automatic. When the engine is running, press the button to stop the engine. The power switch can be used as an emergency shutdown switch if needed.



WARNING

When the LPG hose is connected, the generator will use LPG as fuel. The fuel switch should be in „OFF“ position in this case.



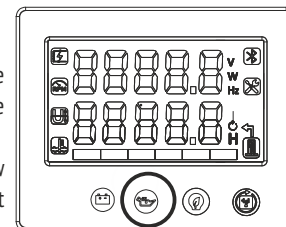
4.2 Low oil level warning light.

When the oil level falls below the lower limit, the oil warning light comes on and then the engine stops automatically. Unless you refill with oil, the engine will not start again.

TIP

If the engine stops or it cannot be started, turn the engine switch to the „ON“ position, then pull the recoil starter.

If the low oil indicator light flickers for a few seconds, the oil level is too low. Add oil and restart the engine.

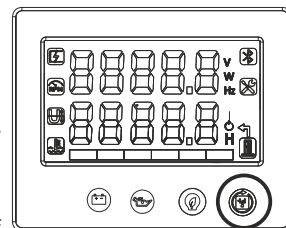


4.3 Running light & reset button.

The running light comes on (green) when the engine is running and generator generates voltage. The light turns red when an overload is detected, the inverter control unit overheats, or the AC output voltage rises above the limit. In this case the AC protector trips and the generator is stopped in order to protect the generator itself and any connected electric devices.

After the overload indicator light comes on and power is removed from the outlets, but the engine is still running, press the reset button. The running light should turn green. If it does not, do the following:

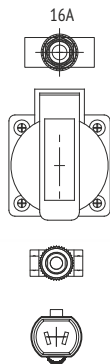
1. Turn off all connected electrical devices.
2. Reduce the total power of the connected devices to the value consistent with the rated power.
3. Check that the cooling air intake and external parts of the control panel are not obstructed. Remove any components causing restricted air flow.
4. After checking, press AC Reset button. Then the voltage will be automatically switched on.



4.4 AC/DC Breakers and receptables.

The inverter is equipped with 32A and 16A AC connection socket as well as DC sockets. The 32A socket enables full inverter power connection and is protected by the inverter load control system. The 16A socket is protected by additional 16A overload fuse.

Sockets are appropriately marked - do not exceed the indicated maximum current value. If the connected device causes an overload in a particular socket, the socket switch will automatically disconnect the power. To restore power, disconnect the receiver from the socket and then manually turn the switch on.

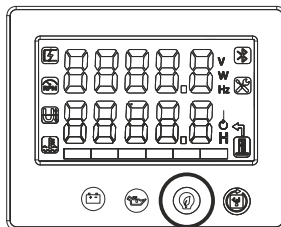


WARNING

Before reconnecting the receiver it is mandatory to check the cause of the overload.

4.5 ECO control, engine smart control (ESC)

When you press ECO control, the ECO mode is activated and the unit control the engine speed according to the actual load. The results are better fuel consumption and lower noise. When ECO mode is turned to :OFF", the engine runs at the rated speed regardless of the load.



TIP

Keep this switch in OFF position in case of supplying electrical devices that require high starting current, e.g. compressors or pumps.

4.6 Earthing

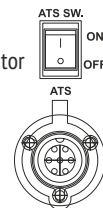
An earth electrode is used to ground the equipment to prevent electric shock. When the powered electrical equipment is grounded, the generator must also be grounded at all time.



4.7 ATIS Switch/Control interface

Before using ATIS function, set the ATIS switch to the „ON" position.

Connect the ATIS control box via the wire harness to control generator start and stop.

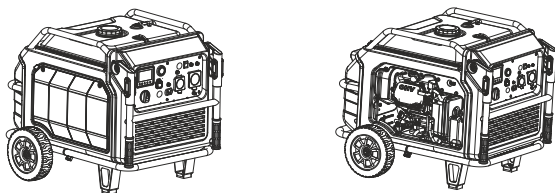


5. Generator preparation

5.1 Add/check oil

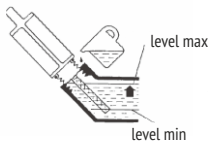
The generator is shipped without oil. User must add the proper amount of oil before operating the generator for the first time. The oil capacity of the engine crankcase is 0,8 L.

Check the oil level each time you start the generator or each 8h of operation.

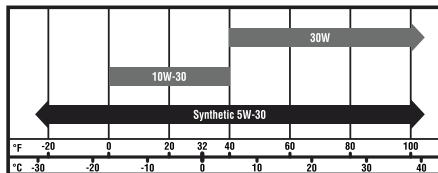


To add oil, follow these steps.

1. Place the generator on a level surface. Make sure the engine is off before adding or checking oil.
2. Screw the oil service door knob to "OPEN" and remove the cover.
3. Screw out the oil plug, then screw-in sealing plug into the pouring orifice, and use the funnel to add the specified amount of oil
4. Screw the oil plug, install the maintenance cover and screw the knobs back.

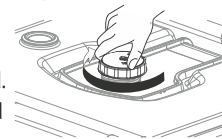


Recommended oil:
10W30



5.2 Fuel-gasoline

- Fuel is highly flammable and poisonous. Before filling fuel read carefully "**SAFETY INFORMATION.**"
- Do not pour too much fuel into the fuel tank as fuel may spill due to its expansion when heated.
- Make sure the fuel tank cap is properly installed after refuelling



CAUTION

- Spilled fuel must be wiped up immediately with a clean, dry, soft cloth as it may damage painted surfaces and plastic parts.
- Use only unleaded gasoline. The use of leaded gasoline will severely damage the internal engine parts.
- Remove the fuel tank cap and fill the fuel tank to the level marked with the red line leave min 25,4mm from the lip of the fuel tank.
- Use only fresh (within 30 days from purchase), lead-free gasoline with a minimum of 87 octane range. Do not use gasoline with over 10% ethanol

CAUTION

During operation, the fuel level will be displayed by the indicator lights on the right side of the digital indicator. Do not fill the fuel tank to the very top.

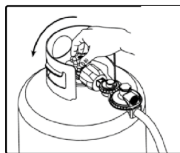
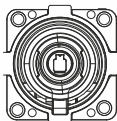
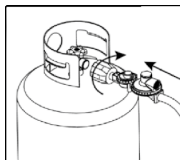
CAUTION

Never store the generator for more than 2 months with fuel in the tank.

5.3 Fuel-liquid petroleum gas (LPG)

To connect your generator to an LPG cylinder:

1. Take off the safety caps from the cylinder valve, generator mounted regulator, and regulator connecting hose ends.
2. With the LPG tank valve closed, attach the LPG regulator connecting hose to the valve. Turn the plastic coupling from the hose right (clock -wise) to tighten hose assembly onto the LPG tank.
3. Remove the protective rubber cover from the LPG inlet on the generator panel. Connect the nut on the other end of the regulator connecting hose to the LPG inlet. Tighten the nut using the included 19mm wrench. Turn the 2-in-1 dial switch to OFF.
4. Turn the LPG tank valve ON and check for leaks by spraying soapy water to check connections. If bubbles appear, become larger in size, or increase in number, a leak exists. This **MUST** be corrected before using generator.



TIP

You can use Teflon (or other tape) to secure the connection of the LPG hose to your generator.

TIP

If you would like to purchase other accessories for your dual-fuel generator, consult your local dealer of propane and propane accessories.

CAUTION

Always position the LPG cylinder so the connection between the tank and LPG inlet won't cause sharp bends or kinks in the hose.

WARNING

Risk of burns. Contact with liquid contents of cylinder will cause freeze burns to the skin. If liquid contents contacts skin or eyes, seek immediate medical attention.

WARNING

When transporting and storing, keep cylinder secured in an upright position with cylinder valve turned off. Keep cylinders ventilated and away from heat when in a vehicle.

5.4 Fuel automatic selection

Your generator is equipped with Auto Fuel Selection Technology. What this means is that the generator will automatically select the fuel source LPG if the LPG hose is connected. If it is not connected, the generator will run on gasoline from the generator fuel tank, assuming it is not empty.

TIP

In case the gas tank is used up, the generator will automatically shut down. To switch to fuel mode, the quick-connect female head of the gas hose must be disconnected from the panel, allowing the generator to operate on fuel from the generator petrol tank.

TIP

To maximize your generator's lifespan, it is recommended to remove all loads before switching between gasoline and LPG.

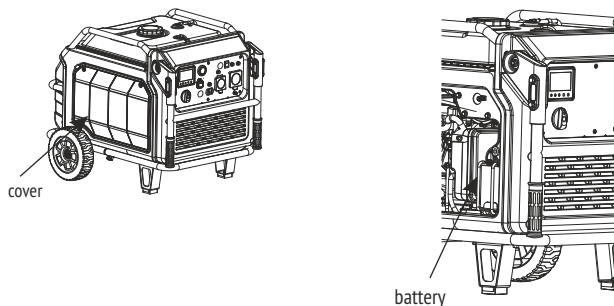
Make sure the generator can handle the load you plan to connect. Mind that the generator can provide more power when running on gasoline than on LPG.

5.5 Battery connection

The generator is shipped with the lithium-ion battery's negative (-) terminal disconnected to maximize safety. To start the generator using electric start, the battery must be connected.

To connect the battery:

1. Remove the cover
2. Connect the black cable onto the battery negative terminal
3. Reinstall the cover

**TIP**

The generator's positive terminal has already been connected. Double check that the positive terminal's connection is secure.

TIP

Run the generator for 30 minutes every month to keep the battery charged. If you do not plan to use the generator for an extended period of time, we recommend **DISCONNECTING** the negative battery cable from the battery. This will protect the battery from losing its charge. After disconnecting the negative cable, cover the free end of the cable with an insulator such as electrical tape. Alternatively, you can use a trickle charger (not included) to maintain battery charge. If you choose to do so, make sure the trickle charger is suitable for lithium-ion batteries.

5.6 Grounding

To reduce the risk of electric shock and to maximize safety, the generator should be properly grounded.

Ground the generator by tightening the grounding nut on the front control panel against a grounding wire.

This grounding wire should be connected at the other end to a copper, brass, or steel grounding rod that is driven into the earth. Wire and grounding rods are not included with the generator.



6. Operation

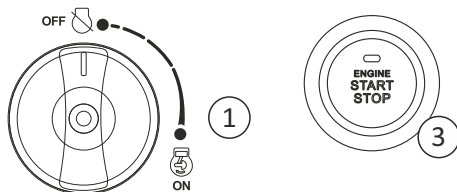
CAUTION

The generator has been shipped without the engine oil. Do not start the engine be sure, the oil level is correct. Mind the safety of electrical connections.

6.1 Starting the generator

Electric Start -

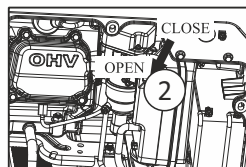
1. Turn the fuel switch on



2. Turn off all the breakers
3. Start the engine using start button

Pull Start -

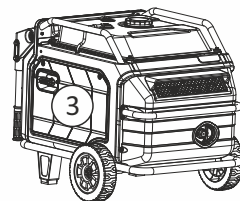
1. Turn the fuel switch on
2. Put the choke lever to "OPEN" position
3. Pull the recoil starter handle slowly until a slight resistance is felt, then pull quickly to start the engine. Return cord gently into the



recoil starter. Never allow the cord to snap back.

6.2 Engine break-in procedure

The procedure below should be followed when you receive your generator in order to prolong the engine's service life. This procedure helps to seat the piston rings properly in the cylinder, and will reduce overall wear on the engine. For the first 8 hours of operation, vary the load, but keep it at or below 50% of the generator's rated wattage, if possible. If your generator is equipped with an Eco-mode switch (only applicable for certain inverter generators), engage Eco-mode periodically during the first 8 hours. After the first 8 hours, change the oil, then change it again after the first 25 hours.



TIP

The generator can be used with rated power in standard weather conditions.

"Standard weather conditions"

Ambient temperature 25°C

Atmospheric pressure 1000 hPa

Relative humidity 30%

Generator power varies with changes in temperature, altitude (lower air pressure at higher altitudes) and humidity.

The power of the generator decreases when the temperature, humidity and altitude are higher than the values determined for standard atmospheric conditions.

Additionally, when the generator is used in confined spaces, it is necessary to reduce the load due to the limited cooling capacity.

6.3 Shutting off the generator

CAUTION

Unplugging running devices can cause damage to the generator. Never stop the engine with electrical devices connected and running.

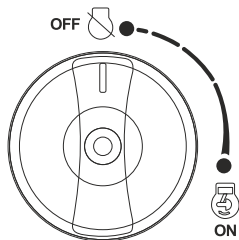
Option 1 a: Automatic fuel shut-off (recommended - gasoline only)

Your generator is equipped with automatic fuel shut-off. This feature turns off the flow of fuel, allowing for the generator to use up the remaining fuel from the carburetor before turning off. This prolongs the lifespan of the generator by preventing build-up and blockages caused by stagnant fuel inside of a carburetor.

1. Turn off all electrical devices prior to unplugging them from the generator.
Unplugging running devices can cause damage to the generator.
2. Allow generator to run at no load for a few minutes to stabilize internal temperatures.
3. Turn the 2-in-1 switch to OFF.

NOTE

The engine will continue to run until the majority of the fuel in the carburetor is consumed, which takes a few minutes. It will then shut off automatically. This feature helps to prevent the carburetor from being clogged by stale fuel, extending your generator's lifespan.



Option 1b: Automatic fuel shutoff (recommended - LPG only)

Although LPG is not prone to degradation the way gasoline is, it is still a good idea to turn the LPG tank OFF before disconnecting the regulator hose from the generator, so that LPG does not leak from the hose.

1. Turn off all electrical devices prior to unplugging them. Un plugging running devices can cause damage to generator.
2. Allow generator to run at no load for a few minutes to stabilize internal temperatures.
3. Turn the 2-in-1 dial switch to the OFF position if it is not in the OFF position already.
4. Turn propane tank valve to OFF position (if the propane regulator hose is connected to the generator).

The engine will continue to run until propane in the carburetor is consumed, which will be nearly immediately. It will then shut down automatically.

NOTE

If there is gasoline in the fuel tank, and any gasoline has made it into the carburetor for some reason, the generator may continue to run for a few minutes until the gasoline has been consumed.

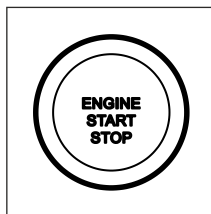
Option 2: manual shutoff

In case you are in a hurry and do not want to wait for the generator to automatically shut down, the manual shutoff feature is available. However, this method will leave stagnant fuel in the carburetor, possibly causing blockages, a shortened lifespan, and other maintenance issues.

CAUTION

If this approach is frequently taken, make sure to drain your carburetor before any long storage periods.

1. Turn off all electrical devices prior to unplugging them from the generator. Unplugging running devices can cause damage to the generator.
2. Press the engine start / stop button once or press the OFF button on the remote control once.



CAUTION

Allowing gasoline to sit in the fuel tank for long periods of time can make it difficult to start the generator in the future. Never store the generator for extended periods of time (over 2 months) with fuel in the fuel tank. Refer to "Storing the Generator."

6.4 Alternating current (AC) socket

WARNING

Make sure all electrical devices are turned off before connecting them to the generator.

TIP

- Make sure all electrical appliances, including cables and sockets, are in good condition before connecting them to the generator.
- Make sure the total load is compatible with the rated power of the generator.
- Make sure that the load current of the plug socket complies with the rated current of the socket.

TIP

Make sure the generator is grounded. When the powered electrical equipment is grounded, the generator must also be grounded at all times.

1. Start the engine.
2. Set the ESC switch to the "ON" position.
3. Connect the electrical equipment to an AC socket.
4. Check that the AC pilot light is on.
5. Turn on the electrical equipment.

TIP

Set the ESC switch to the "OFF" position to increase the engine speed to the rated value. If the generator is connected to several loads, remember to connect the load with the highest starting current first.

6.5 Charging the battery

TIP

- The generator's DC rated voltage is 12V.
- First start the engine and then connect the generator to the battery being charged.
 1. Start the engine.
 2. Connect the red lead from the charger to the positive (+) battery terminal.
 3. Connect the black lead from the charger to the negative (-) battery terminal.
 4. Set the ESC switch to the "OFF" position in order to start charging the battery.

CAUTION

- Make sure that the ESC switch is in the "OFF" position when charging the battery.
- Make sure the charger red lead is connected to the positive (+) terminal and the black wire to the negative (-) terminal of the battery.
Reverse connection is prohibited.
- Connect the charger leads to the battery terminals in a stable manner to prevent their disconnection due to engine vibration or other disturbances.
- Charge the battery in accordance with the correct procedure, following the instructions in the battery manual.

TIP

- To determine when to stop charging the battery, follow the instructions in the battery user manual.
- Measure the specific gravity of the electrolyte to determine if the battery is fully charged. When fully charged, the electrolyte density should be between 1.26 and 1.28.
- It is recommended to check the electrolyte density at least once an hour to avoid overcharging the battery.

CAUTION

While charging the battery, do not go near with an open flame, and do not turn on and off electrical appliances near the battery. The resulting sparks can ignite the gas (hydrogen) which is leaking from the battery.

The electrolyte is poisonous and dangerous, and the hydrochloric acid it contains can cause severe burns. Avoid contact with skin, eyes and clothing. Countermeasure:

EXTERNAL: Rinse with water.

INTERNAL: Drink plenty of water or milk. Then drink the magnesium milk, beaten egg or vegetable oil. Call a physician immediately.

EYES: Rinse with water for 15 minutes and obtain medical attention immediately. Batteries generate explosive gases. Do not use sparks, naked flames, smoking, etc. near them. Provide good ventilation when charging or using in confined spaces. Always protect your eyes when working near batteries.

KEEP AWAY FROM CHILDREN.

6.6 Scope of application

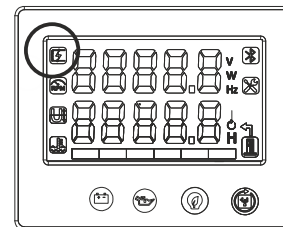
When using the generator, make sure the total load is compatible with the rated power of the generator. Otherwise, there is a risk of damage to the generator.

AC				DC 
Power factor	1	0.8-0.95	0,4-0,75 (efficiency 0,85)	
Rated power Pb	≤5000 W	≤4000 W	≤2000 W	Rated voltage 12 V
Rated power LPG	≤4500 W	≤4000 W	≤2000 W	Rated voltage 12 V

TIP:

- The applicable power applies when the device is used alone.
- Simultaneous generation of AC and DC current is possible, but the total power of the powered devices must not exceed the rated power of the generator.

Generator rated power		Pb	LPG
		5000 W	4500 W
Frequency	Power factor		
AC	1,0	≤ 5000 W	≤ 4500 W
DC		100 W (12 V/8,3 A)	100 W (12 V/8,3 A)



TIP

- Do not overload. The total load of all electrical appliances must not exceed the supply range of the generator. Overloading will damage the generator.
- When supplying precision equipment, electronic controllers, PCs, laptops, microcomputer based equipment or battery chargers, keep the generator a sufficient distance away to prevent electrical interference from the engine. Also ensure that electrical noise from the engine does not interfere with any other electrical devices located near the generator.
- If the generator is to supply medical equipment, advice should first be obtained from the manufacturer, a medical professional or hospital.
- Some electrical appliances or general-purpose electric motors have high starting currents, and cannot therefore be used, even if they lie within the supply ranges given in the above table. Consult the equipment manufacturer for further advice.

7. Maintenance

The engine must be properly maintained to ensure its safe, economical, trouble-free and environmentally friendly operation.

Regular servicing is essential to keep the internal combustion engine in good working order. The following maintenance schedule and periodic inspection procedures must be strictly adhered to:

TIP

- If the internal combustion engine is run frequently under high temperature or heavy load conditions, the oil should be changed every 25 hours.
- If the engine is run frequently in dusty conditions or in difficult environmental conditions, clean the air filter every 10 hours, and if necessary, replace it every 25 hours.
- Servicing should be performed after the specified time or number of hours, whichever comes first.
- If the maintenance is not performed on time, it should be performed as soon as possible.

Frequency		Each time	After the 1st month or the first 20 operating hours	Then every 3 months or 50 operating hours	Every year or 100 operating hours
Items					
Engine oil	Check refill	✓			
	Replacement		✓	✓	
Air filter element	Check	✓			
	Cleaning			✓	
	Replacement			✓	
Decanter (if present)	Cleaning				✓
Spark plug	Check adjustment				✓
	Replacement	Every year or 250 operating hours			
Spark arrestor	Cleaning			✓	
Idle gear (if present)*	Check adjustment				✓
Valve clearance*	Check adjustment				✓
Fuel tank	Cleaning				✓
Fuel line	Check	Every 2 years (replace if necessary)			
Cylinder head, piston	Removal of carbon deposit*	<225 cc, every 125 h			
		≥225 cc, every 250 h			
* These elements should be serviced and repaired by our authorized distributor, unless the owner has the appropriate tools and knowledge					

WARNING

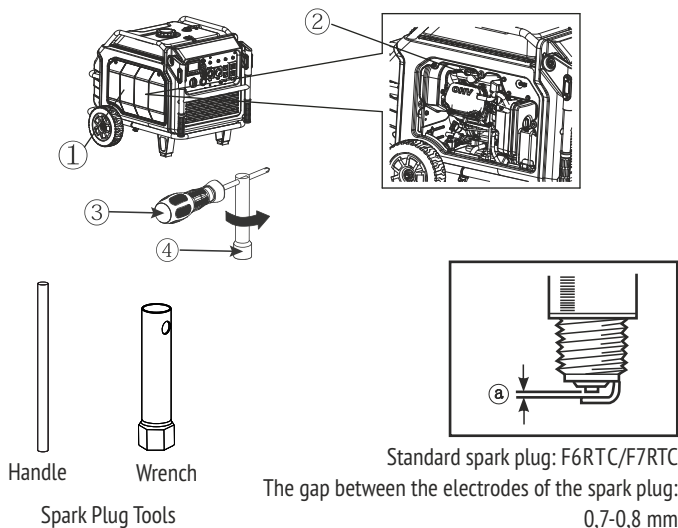
Before starting operation, switch off the engine. Place the engine on a level surface and remove the spark plug cap to prevent the engine from starting.

The engine must not be used in a poorly ventilated room or any other confined space. Make sure the workplace is well ventilated. Engine exhaust can contain poisonous carbon monoxide, inhalation of which can cause shock, unconsciousness or even death.

7.1 Spark plug inspection

Spark plugs are an important part of the engine and require periodic inspection.

1. Remove the cover (1) and the spark plug cap (2), and Insert the tool through the hole from the outside of the cover.
2. Insert the handlebar (3) into the tool (4) and turn it counterclockwise to remove the spark plug.
3. Check for discolouration and remove carbon deposits. The porcelain insulator to the centre electrode circle of the spark plug should be medium brown to light brown.
4. Check the spark plug type and the gap between the electrodes.



TIP

The gap between the spark plug electrodes should be measured with a feeler gauge and adjusted to specification if necessary.

5. Screw the spark plug back in. Spark plug tightening torque: 22 N*m

TIP

In the absence of a torque wrench, after tightening the candle with your fingers, you must additionally turn it by 1/2 - 3/4 of the turn. However, after such tightening, the spark plug should be tightened to the recommended torque as soon as possible.

6. Install the cap and cover of the spark plugs.

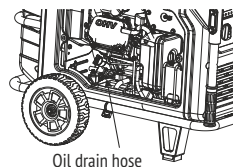
7.2 Carburettor adjustment

The carburettor is a very important part of the engine. Carburettor adjustment should be performed by our authorized distributor having the appropriate knowledge and equipment that allows for this operation to be performed properly.

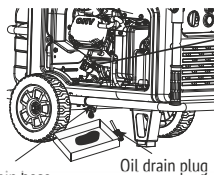
7.3 Changing the engine oil

Avoid draining the engine oil immediately after stopping the engine. The oil is hot and should be handled with care to avoid burns.

1. Place the generator on a level surface and warm up the engine for several minutes. Then stop the engine.
2. Remove the screws and the cover
3. Remove the oil filter cap.
4. Place the pan under the engine. Tilt the generator to drain the oil completely.
5. Replace the generator on a level surface



Oil drain hose



Oil drain hose

Oil drain plug

Oil filter cap

NOTE

Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.

6. Unscrew the oil dipstick. Using a funnel or appropriate dispenser, add clean engine oil into the oil fill until you can see oil coming up the threads of the oil fill. Do not over fill.

Recommended engine oil: SAE 10W-30

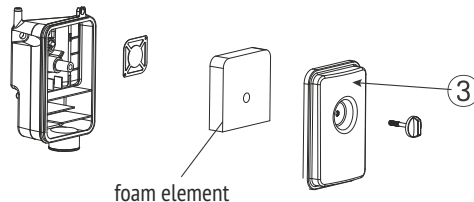
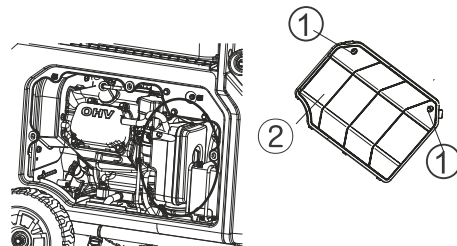
Recommended engine oil grade: API Service type SE or higher

The amount of engine oil: 0,8 l

7. Reinstall the oil dipstick and tighten it securely. Wipe clean any oil spillage.
8. Install the oil filter cap.
9. Install the cover and tighten the screws

7.4 Air filter

1. Remove the screws (1), and then remove the cover (2)
2. Remove the air filter case cover (3).
3. Remove the foam element.
4. Wash the foam element in solvent and dry it.
5. Oil the foam element and squeeze out excess oil. The foam element should be wet but not dripping.



foam element

TIP

Be sure the foam element sealing surface matches the air filter so there is no air leak. The engine should never run without the foam element; excessive piston and cylinder wear may result.

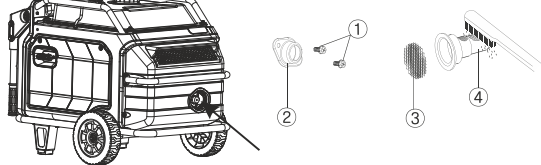
7. Install the air filter case cover in its original position and tighten the screw.
8. Install the cover and lock it.

7.5 Muffler strainer and spark arrestor

WARNING

The engine and muffler will be very hot after the engine has been run. Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.

1. Remove the screws (1),
2. Remove the muffler cap (2), the muffler screen (3) and spark arrestor (4).



3. Clean the carbon deposits on the muffler screen and spark arrestor using a wire brush.

NOTE

When cleaning, use the wire brush lightly to avoid damaging or scratching of muffler

screen and spark arrestor.

4. Check the muffler screen and spark arrestor. Replace them if damaged.
5. Install the spark arrestor.

TIP

Align the spark arrestor projection with the hole in the muffler pipe.

6. Install the muffler screen and the muffler cap.
7. Install the cover and tighten the screws.

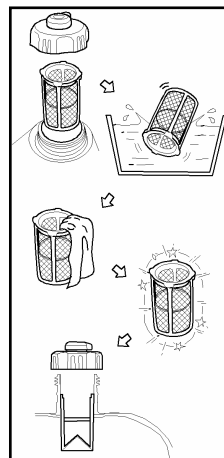
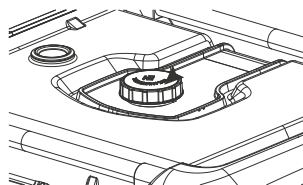
7.6 Fuel tank filter

WARNING

Never use the gasoline while smoking or in the vicinity of an open flame.

1. Remove the fuel tank cap and filter.
2. Clean the filter with gasoline.
3. Wipe the filter and install it.
4. Install the fuel tank cap.

Be sure the fuel tank cap is tightened securely.



8. Storage

Long-term storage of the generator (over 2 months) requires certain preventive procedures to prevent its deterioration.

TIP

Store the emptied gasoline in a suitable place. Never store fuel for more than 2 months.

8.1 Draining the fuel tank

1. Turn the switch to "OFF"
2. Remove the fuel tank cap, remove the filter. Extract the fuel from the fuel tank into an approved gasoline container. Then install the fuel tank cap.

WARNING

Fuel is flammable and poisonous. Please read carefully "SAFETY INFORMATION" (see page 40).

3. Start the engine and leave it run until it stops. The engine stops in approx. 20 minutes, after running out of fuel.
4. Remove the screws, and then remove the cover.
5. Drain the fuel from the carburetor by loosening the drain screw on the carburetor float chamber.
6. Tighten the drain screw.
7. Install the cover and tighten the screws.

8.2 Engine

To protect the cylinder, piston ring, etc. from corrosion, proceed as follows.

1. Remove the spark plug, pour approximately one tablespoon of SAE 15W-40 oil into the spark plug hole, and screw the spark plug back in. Rotate the engine a few times using the starter (with the switch in "OFF" position) until the cylinder walls are covered with oil.
2. Pull the starter handle until you feel the pressure. Then stop pulling. (This prevents the cylinder and valves from rusting).
3. Clean the exterior of the generator. Store the generator in a dry, well-ventilated place and covered.

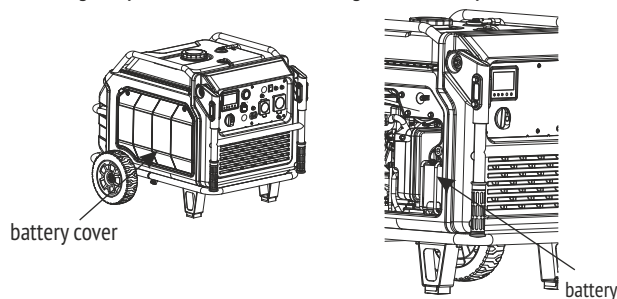
8.3 Battery

The lithium-ion battery will receive charge when the engine is running. Remember to run the generator once a month for 20-30 minutes to charge the battery. A charged battery will allow you to start the generator using the electric start button during your next time of need. If the battery is out of charge, you may start the generator using the recoil starter. If the generator is not used for a long period, it is recommended to disconnect the negative (black) battery cable from the battery to protect it from losing charge. After disconnecting the cable, cover the free end with an insulator such as electrical tape.

TIP

You can also connect the battery to an automatic trickle charger to keep the battery charged. If using a trickle-charger, charge the battery at room temperature. Make sure to use a trickle-charger suitable for lithium-ion batteries.

Lithium-ion batteries can be damaged or suffer a shortened lifespan if they are charged in very cold temperatures (below freezing). If you expect to store the generator in temperatures below -5°C , we recommend removing the battery from the generator and storing it indoors. If using the generator in temperatures below -5°C , we recommend running the generator for at least 15 minutes with the battery removed, or the negative (black) battery cable disconnected and covered with an insulator such as electrical tape, and then connecting the battery. This will allow the inside of the generator to warm up, and will greatly reduce the chance of damage to the battery.



If you expect to store the generator in temperatures below 0°C , we recommend removing the battery from the generator and store indoors.

9. Troubleshooting and fault elimination

PROBLEM	POSSIBLE CAUSE	SOLUTION
Engine will not start.	1. 2-in-1 dial switch is in wrong position.	1. Set switch to RUN when starting or running engine.
	2. Battery switch is set to OFF (0).	2. Turn battery switch to ON (I).
	3. Battery is too cold.	3. Electric start may be difficult if the battery is too cold. Store the generator or battery in a warmer location.
	4. Oil is low.	4. Add oil.
	5. Engine is out of fuel.	5. Add fuel.
	6. Engine is filled with contaminated or old fuel.	6. Drain fuel in the tank and carburetor. Replace with fresh fuel.
	7. Spark plug is dirty or broken.	7. Clean or replace spark plug.
	8. Propane tank is turned OFF.	9. Dang it, Bobby, I told you to turn that thing on!
	9. Carburetor is air locked.	9. Turn the 2-in-1 switch to OFF. Take off the carburetor bowl to allow it to reset. Replace or clean carburetor.
	10. Regulator is stuck.	10. Turn OFF propane tank. Disconnect hose from propane fitting. Contact customer service for assistance.
Engine runs, but there is no electrical output.	1. Reset button has activated due to wattage overload.	1. Turn off and unplug all electrical devices. Press reset button. Check the total wattage of the load.
	2. Breaker has tripped due to wattage over-load.	2. Unplug connected devices. Check the wattage.
	3. Bad connecting cord or wire.	3. Check power cords & extension cords. Do not use if any cord is damaged. Replace damaged cords immediately.
	4. Bad electrical device connected to the generator.	4. Try connecting a different device.
Generator runs, but does not support all electrical devices connected	1. AC or DC receptacles are overloaded; circuit breaker has tripped.	1. Unplug connected devices. Check the wattage and technical conditions of devices.
	2. Short circuit in one of the devices.	2. Disconnect any faulty or short-circuited electrical devices.
	3. Air filter is dirty.	3. Clean or replace the air filter element.
Engine is "hunting" during operation (engine RPM is fluctuating).	1. Gasoline is not running through fuel valve.	1. Make sure there is enough fuel. Make sure 2-in-1 switch is turned to RUN.
	2. Propane level is getting low.	2. Switch to a new propane tank, or use gasoline.
	3. Air filter is dirty.	3. Clean or replace the air filter element.
	4. Spark arrestor is dirty.	4. Clean the spark arrestor.
	5. There is gunk in the carburetor preventing a consistent fuel/air mixture.	5. Use carburetor cleaner spray on the carburetor bowl and jets.

10. Technical specifications

Model No.		Generator 5,0 kW	
Generator	Type	Inverter	
	Rated frequency (Hz)	50	
	Rated voltage (V)	230	
	Maximum power (kW)	5,5	5,0
	Rated power (kW)	5,0	4,5
	Power factory	1,0	
	The quality of the generated	ISO 8528 G2	
	Charging voltage (DC) (V)	12	
	Charging current (DC) (A)	8,3	
	Engine	R29CD-Si	
Engine	Type of engine	Single cylinder, 4-stroke, forced air cooled, OHV	
	Capacity (cc)	292	
	Type of fuel	Unleaded petrol	LPG
	Fuel tank capacity (l)	19	-
	Continuous operation time (50%-100% load)	11	-
	Oil capacity (l)	0,8	
	Spark plug number	F7RTC	
	Start-up mode	Electric start	
	Length x width x height (mm)	746 x 635 x 605	
	Net weight (kg) - dry	65	

IMPORTANT: Repairs and replacements should only be performed by an authorized technician. Parts and accessories that wear down over the course of normal use are not covered by warranty.

11. Wiring diagram

12. Warranty terms

FOGO Sp. z o. o. grants a warranty for the delivered power generator. The warranty is valid for 24 months from the date of purchase, but not longer than 36 months from the date of shipment from the manufacturer's warehouse.

The basis for any claim under the warranty is the purchase invoice of the power generator. The claim shall be provided to the point where the power generator was purchased. Only the seller of the power generator shall be authorized to contact the manufacturer regarding the handling of the complaint.

The warranty shall not cover:

- Parts subject to normal wear, such as: rubber and rubber-metal elements, brushes, seals, thermal and thermal-magnetic switches, etc.
- Consumables such as: filters, engine oil, spark plugs, etc.
- Parts damaged as a result of improper use, transport or storage inconsistent with the operating instructions.
- Damage resulting from servicing/inspecting at facilities not authorized by Fogo Sp. z o. o.
- Parts damaged as a result of incorrect connection to the electrical system by persons without electrical qualifications.
- Damage resulting from reasons beyond the control of Fogo Sp. z o. o. and in particular: atmospheric discharges, acts of war or terrorism or other random events.
- Products with non-original spare parts or consumables.

Fogo Sp. z o. o. shall start the repair within 14 days from the date of the written or electronic notification of the defect or failure and delivery of the device to the place of purchase. The repair shall take place immediately, taking into account the technical capabilities and availability of parts. If the repair time exceeds 14 days from the date of delivering the power generator for repair, the warranty period shall be extended by the period of the device's stay in the service. The warranty obligations of FOGO Sp. z o.o. shall be valid only for devices subject to periodic inspections carried out only by authorized service centres of FOGO Sp. z o.o., in accordance with the guidelines contained in the User's Manual.

The Buyer shall have no right to claim compensation for damages and lost profits to the property and persons suffered or for which the Warranty Holder is responsible and which result from the failure or defects of the power generator, as well as for those resulting from the incorrect operation or non-operation of the power generator during the warranty period and after its expiration. The right of the parties to seek compensation for the damage suffered and indirect damage, including lost profits, shall be excluded.

13. Decommissioning and disposal

In accordance with DIRECTIVE 2012/19/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 on waste electrical and electronic equipment (WEEE), we hereby inform you about the collection system, including the return of waste equipment, and the role that households play in contributing to the reuse and recovery, including recycling, of waste equipment.

CAUTION

The generator and the materials used in its construction and operation can cause significant environmental damage if not disposed of properly. By reusing materials or using waste equipment in other ways, you are making a significant contribution to protecting our environment.

CAUTION



Do not dispose of the generator or its consumables at the end of their useful life as normal municipal waste! All waste is a potential source of hazards and pollutes the environment. It is strictly prohibited to pollute the environment with waste materials or waste equipment. All materials must be collected, sorted, disposed of, and used in accordance with applicable national regulations. Information on the appropriate disposal point for used equipment can be obtained from your municipal administration.

At the end of the unit's useful life, or any part of it, it must be disposed of appropriately. The following materials must be delivered to official disposal sites because they may

constitute hazardous waste. Hazardous waste includes used items, solid substances, and liquid substances other than sewage, generated in connection with human activity or economic activity, unsuitable for the place or time in which they were generated, and harmful to the environment. In particular, this applies to:

- operating fluids (engine oil, coolant, etc.),
- filters,
- starting batteries,
- a mixture of water and antifreeze,
- any materials soaked in operating fluids or diesel fuel,
- cleaning materials (e.g., greasy, fuel-soaked, or chemically contaminated cleaning cloths).

These materials must be delivered to appropriate entities responsible for their collection, collection, and disposal. They must not pollute the environment or be stored along with regular municipal waste. If the generator is no longer used, it must be delivered to an organization officially responsible for the disposal of industrial machinery. Please contact your local dealer about the procedure on how FOGO executes its obligation in your area.



Zastrzegamy sobie prawo do dokonywania zmian w ramach technologicznego doskonalenia naszych produktów. Wszelkie informacje w tej publikacji oparte są na danych o produkcie, dostępnych w chwili drukowania. W wyniku ulepszania konstrukcji urządzenia mogą pojawić się modyfikacje, które będą uwzględniane w kolejnych wersjach instrukcji obsługi przez służby odpowiedzialne za wprowadzanie zmian. Jeśli użytkownik instrukcji stwierdzi błędy w opisie lub niezgodności ze stanem faktycznym, proszony jest o zgłoszenie ich za pomocą załączonej karty zgłoszenia lub drogą e-mail: d.zacharski@fogo.pl lub tel. (65) 534 11 80. Żaden fragment tej publikacji nie może być powielany bez pisemnej zgody firmy FOGO Sp. z o.o. Instrukcja ta jest nieodłączną częścią urządzenia i musi pozostać przy nim w razie dalszej odsprzedaży lub jakiegokolwiek zbycia urządzenia.