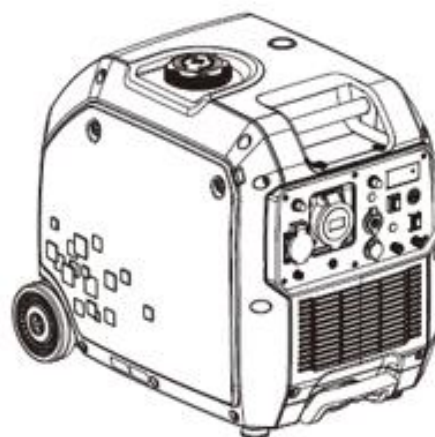


Operator's Manual

Portable generator PMI4500/PMI6500



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Manufacturer

PR Industrial s.r.l.
Loc. Il Piano
53031 Casole d'Elsa (SI) - Italy
Tel.: +39 0577965200
E-mail address: info@pramac.com

Original Operator's Manual

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1. Foreword

This operator's manual contains important information and procedures for the safe, correct and economical operation of this PRAMAC machine. Thorough reading as well as understanding and adhering to what is written in the manual helps to avert hazards, reduce costs for repairs and downtime, and increase the availability and operating life of the machine.

This operator's manual is not a guide to extraordinary maintenance and repair. Such work must be performed by PRAMAC's service centre or recognised qualified personnel. The use and maintenance of this PRAMAC machine must comply with the instructions provided in this operator's manual. Improper operation or non-regulatory maintenance can cause hazards. For this reason, the operator's manual must always be stored in the place of use of the machine.

Defective machine components must be replaced immediately!

The PRAMAC contact person is always available for any questions related to operation or maintenance.

2. Introduction

2.1 Means of representation of this operator's manual

Warning Symbols

This operator's manual contains safety instructions for the following categories: DANGER, WARNING, CAUTION, ATTENTION.

These must be respected to exclude the danger of death or injury to the operator, material damage or incompetent assistance.



DANGER

These warnings refer to immediate dangers that cause serious injury or death.

- It is possible to avoid the danger by applying the respective measures indicated.



WARNING

These warnings refer to possible hazards that can cause serious injury or death.

- It is possible to avoid the danger by applying the respective measures indicated.



CAUTION

These warnings refer to possible hazards that may cause minor injuries.

- It is possible to avoid the danger by applying the respective measures indicated.

ATTENTION

These warnings refer to possible dangers that may cause material damage.

- It is possible to avoid the danger by applying the respective measures indicated.

Notes

Note: Further information is provided below.

Operating instructions

- This symbol requires you to do something.
- 1. The numbered management instructions require operations to be performed in the sequence indicated.
 - This symbol is used for the list.

2.2 PRAMAC Representative

The PRAMAC contact person is, depending on the country, the PRAMAC support, the PRAMAC subsidiary or the PRAMAC dealer.

The addresses can be found on the Internet at WWW.PRAMAC.COM

The address of the manufacturer is given at the beginning of this operator's manual.

2.3 Types of appliances described

This operator's manual refers to different types of appliances belonging to the same product range.

For this reason, some illustrations may be slightly different from the appliance in your possession.

Components that are not included in the appliance in your possession may also be described.

Details of the types of equipment described are given in the *Technical Data* chapter.

2.4 Marking of the appliance

Model nameplate data

The model nameplate contains data that uniquely identifies the appliance. This data is necessary to order spare parts and to ask for clarifications of a technical nature.

➤ Write down the data of the appliance in the following table:

Description	Your details
Group and type	
Year of manufacture	
Code No.	
Serial No.	

3. Safety provisions

3.1 Safety instructions in this operator's manual

This operator's manual contains safety provisions of the following categories: DANGER, WARNING, CAUTION, *NOTE* and ADDITIONAL NOTE. These are to be followed to reduce the danger of injury, damage to equipment or improper maintenance.



This is a safety symbol that warns of possible injuries.

- Observe all safety regulations that show this symbol.



DANGER

DANGER indicates a hazardous situation; failure to observe this warning leads to serious injury or death.

- To avoid fatal and serious injuries, strictly observe all safety messages that follow this keyword.



WARNING

Warning indicates a hazardous situation; failure to observe this warning may lead to serious injury or death.

- To avoid the possibility of fatal and serious injuries, strictly observe all safety messages that follow this keyword.



CAUTION

CAUTION indicates a hazardous situation; failure to observe this warning may lead to minor and moderate injury.

- To avoid possible minor or moderate injuries, strictly observe all safety messages that follow this keyword.

NOTE: If this word appears without the safety symbol, NOTE indicates a dangerous situation whose non-observance could cause damage to property.
Additional note: An additional note contains additional important information for a procedure.

3.2 Description and intended use of the machine

This machine is a portable power source. The PRAMAC portable generator consists of a tubular steel frame that includes a fuel tank, a petrol engine, a control panel and an alternator. The control panel contains keys and sockets. When the engine is running, the generator transforms the mechanical energy into electrical energy. The operator connects electrical loads to the mains power sockets.

This machine is used for the power supply of connected electrical loads. Refer to the product specifications for the output voltage and frequency of the generator, as well as the maximum power limit of this generator.

This machine has been designed and built exclusively for the above purpose of use. Using the machine for different purposes could permanently damage the machine or result in serious injury to the user or others in the vicinity. Damage to the machine due to improper use is not covered by the warranty.

The following practices are considered misuse:

- Connection to an electrical load, whose voltage and frequency are not compatible with the generator output
- Generator overload with a load, which receives too much power in continuous operation or at startup
- Using the generator in a manner that does not comply with federal, state, and local laws and regulations
- Use of the machine as a ladder, support or work surface
- Using the machine to transport people or equipment
- Use of the machine outside the factory specifications
- Use of the machine in contrast to the warnings indicated on the machine and contained in the operator's manual.

This machine has been designed and built according to the latest international safety standards. In order to eliminate hazards as much as possible, it has been designed with the utmost care from a technical point of view and includes side protection plates and warning labels for greater user safety. Despite these precautions, there may be other risks. These are called residual risks. Possible risk factors of this machine:

- Heat, noise, exhaust and carbon monoxide from the engine
- Fire hazard due to incorrect refuelling
- Petrol and petrol vapours
- Electric shock and electric arc
- Injuries due to improper lifting technique

For the protection of yourself and others, be sure to read and understand the safety instructions contained in this manual before operating the machine.

3.3 Operating safety



DANGER

Carbon monoxide.

Using a generator inside buildings can
LEAD TO DEATH IN A MATTER OF MINUTES.

The generator exhaust gases contain carbon monoxide (CO). This is an invisible, odourless poison. When the odour of the generator exhaust gas is heard, CO. is inhaled. But it can happen that you inhale CO even if you do not smell it.

- NEVER use the generator in buildings, garages, basements or other partially enclosed spaces. In these areas, carbon monoxide can accumulate to deadly levels. A fan or an open window DOES NOT ensure sufficient fresh air.
 - Only use generators outdoors and away from windows, doors and air vents. These openings can attract generator exhaust gases.
 - Even with the correct use of a generator, CO can penetrate into the home. At home, ALWAYS use a battery-powered or battery-supported CO detector.
 - In case of malaise, dizziness or feeling weak after using the generator, IMMEDIATELY expose yourself to fresh air. Consult a physician. It could be carbon monoxide poisoning.
-



WARNING

Danger of electric shock, fire or explosion. Incorrect connection of the generator to the electrical system of a building may result in the return of the generator current to the power supply system. This can result in electric shock, serious injury or death to workers in power companies!

- The following connection requirements must be met.
-

Connection requirements

To connect the generator to the electrical system of the building, the following requirements must be met.

- The generator must meet the power, voltage and frequency requirements of the equipment in the building.
- The generator must be disconnected from the mains.
- Connections from the generator to the power grid of a building must be made by a qualified electrician.
- Electrical connections must comply with all laws and regulations regarding electricity.



WARNING

Familiarity with the machine and proper training are necessary for safe operation. Machines used incorrectly or by unqualified personnel can be dangerous. Read the instructions for use contained in this manual and in the engine manual to become familiar with the position and correct use of all controls. Inexperienced users must be trained by personnel who are familiar with the machine before they can use the machine.

3.4 User qualification

Only trained personnel can start, operate and shut down the machine. Personnel must meet the following requirements:

- be trained on the correct operation of the machine
- be familiar with the necessary safety devices

Access to the machine and its use are not allowed for:

- children
- people under the influence of alcohol, drugs or medications

Personal Protective Equipment (PPE)

When using this machine, wear the following personal protective equipment (PPE):

- Fitted work clothes that do not impede movement
- Safety glasses with side guards
- Hearing protection devices
- Work shoes or boots with toe protection
- NEVER use the generator near open containers of fuel, paint or other flammable liquids.
- NEVER touch the generator or connected tools with wet hands.
- NEVER use a damaged cable. Electrical shock and serious damage to the machine may occur.
- NEVER place the power cord under the generator or on hot or vibrating parts.
- NEVER cover the generator hot or running.

- NEVER overload the generator. The total amperage of the parts connected to the generator must not exceed the expected limit.
- NEVER use the machine in snow, rain or standing water.
- NEVER allow unqualified personnel to operate or maintain the generator. Before starting the generator, become familiar with operation and shutdown.
- ALWAYS store the equipment properly when not in use. Store the machine in a dry and clean place and out of the reach of children.
- ALWAYS ensure that the machine is stable and cannot tip, roll, slip or fall during operation.
- ALWAYS transport the generator in an upright position.
- When operating the machine, ALWAYS keep at least one metre away from structures, buildings or other machines.
- Keep the area immediately around and under the machine ALWAYS clean, tidy and free of dirt and flammable materials. Check that even above the machine there is no dirt that could fall on/in the machine or in the unloading area.
- Before starting, ALWAYS move all tools, power cables and other loose objects away from the generator.
- DO NOT ground this generator.
- If more than one electrical equipment is connected to the generator, the additional electrical equipment must be connected through an isolation transformer or a suitable circuit breaker (GFCI), whereby each additional electrical equipment must be operated through its own isolation transformer or GFCI.

Generator vibration

The generators vibrate during normal operation. During and after use, check whether the generator or extension cords and power cord are damaged due to vibration.

- Repair any damage as required or replace the parts in question.
- Do not use plugs or cables that show signs of damage, such as damage or tearing to insulation or blades.

3.5 Safety in the use of internal combustion engines

**WARNING**

Combustion engines are a particular hazard during operation and refuelling. Failure to follow the warnings and safety instructions may result in serious or fatal injury.

- Always read and observe the warnings in the engine operating instructions and safety information below.
-

**DANGER****Carbon monoxide.**

Using a generator inside buildings can LEAD TO DEATH WITHIN MINUTES. The generator exhaust gases contain carbon monoxide (CO). This is an invisible, odourless poison. When the odour of the generator exhaust gas is heard, CO. is inhaled. But it can happen that you inhale CO even if you do not smell it.

Operating safety

With the engine running:

- Keep the area around the drain pipe clear of flammable materials.
- Inspect the fuel supply pipes and fuel tank before starting the engine for leaks and cracks. Do not operate the machine in the presence of leaks or if the fuel supply pipes are loose.

With the engine running:

- Do not smoke while operating the machine.
- Do not operate the engine in the vicinity of sparks or open flames.
- Do not touch the engine or exhaust muffler when the engine is running or immediately after shutdown.
- Do not operate the machine with the tank cover loose or missing.
- Do not start the engine if fuel has been spilled or if there is a smell of fuel. Move the machine away from the spilled fuel and dry it before starting it.

Safety during refuelling

When refuelling the machine:

- Clean up spilled fuel immediately.
- Fill the fuel tank in a well-ventilated area.
- After refueling, replace the fuel tank cover.
- No smoking.
- Do not refuel hot or running engines.
- Do not refuel the engine near sparks or open flames.
- Do not refuel the machine while it is on the plasticized contact surfaces of flatbed trucks. Static electricity can ignite fuel or fuel vapors.

3.6 Technical assistance and safety



WARNING

Carelessness in the maintenance of the machine can constitute a danger! To ensure safe and correct operation for extended periods, regular maintenance and occasional repairs are necessary. If there is a problem with the generator, or while the machine is under maintenance, always affix a “DO NOT START” sign on the control panel to alert other people.

Personal Protective Equipment (PPE)

During maintenance or repair work on this machine, always wear the following personal protective equipment:

- Fitted work clothes that do not impede movement
- Safety glasses with side guards
- Hearing protection devices
- Work shoes or boots with toe protection

Further instructions before using the machine:

- Tying up long hair
- Remove all jewelry (including rings)
- DO NOT use petrol or other types of fuel or flammable solvents for cleaning parts, especially in enclosed areas. Fuel and solvent vapors could explode.
- NEVER use the equipment without protective equipment or with damaged protective equipment.
- NEVER modify the machine without the written permission of the manufacturer.
- NEVER allow water to accumulate at the bottom of the generator. If water build-up should occur, move the generator and allow to dry completely before maintenance.
- NEVER maintain the machine with wet clothing or leather.

-
- NEVER allow maintenance of the machine by untrained personnel. The maintenance of the electrical elements of this machine must only be carried out by qualified electricians.
 - NEVER allow children and pets to approach the machine. Always maintain a safe distance between children and the generator.
 - Always keep the machine clean and make sure the labels are legible. Replace all labels that are missing and difficult to read. Labels provide important operating instructions and warn of hazards.
 - After repairs and maintenance, ALWAYS reassemble the safety devices on the machine.
 - ALWAYS allow the engine to cool completely before transport.
 - ALWAYS pay attention to the rotating parts of the generator and engine and keep your feet, hands and wide parts of clothing away.
 - ALWAYS disconnect the power supply before maintenance. In machines with electric start disconnect the negative terminal of the battery.
 - ALWAYS keep the fuel supply pipes properly connected and in good condition. Fuel and gas leaks are highly explosive.
 - If spare parts are required for this machine, use only PRAMAC parts or parts equivalent to the original in terms of size, type, quality and material.

4. Self-adhesive safety and warning labels

There are labels on the appliance that contain important safety indications and warnings.

- Keep all labels legible.
- Replace missing or illegible labels.

The item numbers of the labels can be found in the spare parts catalogue.

Art.	Self-adhesive label	Description
1		Guaranteed sound power level.
2		DANGER! Choking hazard. ▪ Engines emit carbon monoxide. ▪ Do not use the machine indoors or outdoors. ▪ Never use in the house or garage, EVEN if the doors and windows are open. ▪ ONLY USE OUTDOORS and away from windows, doors and air vents. ▪ Read the operator's manual. ▪ Sparks, flames or burning objects are not allowed in the vicinity of the machine. ▪ Turn off the engine before refilling.
3		Hot surface warning.
4		Hot surface warning. PE = earthing potential - connect the earthing cables here (where required). WARNING! An electric shock causes serious injury or death.

5. Standard equipment

The standard equipment includes:

- Device.
- Operator's manual.
- EC Declaration

6. Lifting and transport

Lifting the machine

This compact generator is heavy enough to cause injury due to improper lifting technique. To lift the generator, observe the following instructions:

- Do not attempt to lift the generator without assistance. Use suitable lifting devices, such as belts, chains, hooks, ramps or jacks.
- Ensure that the lifting devices are securely fastened and have sufficient load capacity to lift and hold the generator safely.
- When lifting the generator, pay attention to the personnel in the vicinity.
- To prevent the generator from leaking liquids during transport or temporary storage, turn off the generator, keeping it straight during the various operations.

Carrying the machine

Observe the following instructions when the generator is transported to and from the construction site.

- Allow the engine to cool before refuelling the fuel generator.
- Empty the fuel tank.
- Close the fuel tap.
- Securely attach the generator to the transport vehicle to prevent it from slipping or tipping over.
- Do not refuel the generator in/on the transport vehicle. First transport the generator to the workplace and then fill the fuel tank.
- Do not use the generator set in/on the transport vehicle.
- Do not let petrol escape from the tank (on top of the tank there must be no petrol).
- When carrying the generator on a motorised vehicle, avoid exposing it to sunlight. If it is placed in a closed car for a long time, the high temperature of the car can bring the petrol to a boil, posing a danger of fire.

WARNING

- Petrol can catch fire or explode very easily under certain conditions.
- Smoking in the vicinity of petrol is strictly prohibited

Before storing the generator in storage for a long period of inactivity, you must:

- Carefully check that the storage place is clean and dry
- Fully empty the fuel tank

7. Operation

7.1 Preparing the machine for first use

1. Make sure all packaging material has been removed from the machine.
2. Check for any damage to the machine and components. In case of visible damage, do not operate the machine! Contact your PRAMAC dealer now for advice.
3. Check that all engine parts have been delivered and that all loose parts and accessories are present.
4. Install components that are not yet fixed.
5. Refill fluids as needed, including fuel, engine oil, and battery acid.
6. Take the machine to its place of use.



DANGER **Carbon monoxide.**

Using a generator inside buildings can LEAD TO DEATH WITHIN MINUTES. The generator exhaust gases contain carbon monoxide (CO). This is an invisible, odourless poison. When the odour of the generator exhaust gas is heard, CO. is inhaled. But it can happen that you inhale CO even if you do not smell it.

- NEVER use the generator in buildings, garages, basements or other partially enclosed spaces. In these areas, carbon monoxide can accumulate to deadly levels. A fan or an open window DOES NOT ensure sufficient fresh air.
 - Only use generators outdoors and away from windows, doors and air vents. These openings can attract generator exhaust gases.
 - Even with the correct use of a generator, CO can penetrate into the home. At home, ALWAYS use a battery-powered or battery-supported CO detector.
 - In case of malaise, dizziness or feeling weak after using the generator, IMMEDIATELY expose yourself to fresh air. Consult a physician. It could be carbon monoxide poisoning.
-

Use of petrol/ethanol/methanol blends

- This portable generator cannot be used with petrol/ethanol blends with ethanol content greater than 10%.
- Do not use alcoholic petrol that has a content of more than 5% methanol.

7.2 Power Supply Requirements

The PRAMAC generator is designed for operation of electrical equipment at 50 Hz single phase for 230 VAC.

Three-phase generators are designed for the operation of single-phase electrical equipment at 50 Hz for 230 VAC and/or three-phase electrical equipment at 50 Hz for 400 VAC. The single-phase and three-phase sides can be used simultaneously.

NOTE: Do not exceed the power limit of the generator, as this could cause damage to the unit or tools. See Technical Data.

Check on the plates or labels of the connectable tools and electrical appliances that the current values correspond exactly to those of the generator. If an appliance does not report power, always consult the manufacturer.

Some electrical appliances require a greater amount of current to start than to operate. The generator must be able to provide this power. Various versions of appliances actually require more power than that shown on the nameplate.

The information "General current requirements for start-up" only serves as a general guideline to help you determine the current requirements. If you have any questions, please contact your nearest PRAMAC dealer, or a tool manufacturer or dealer.

NOTE: Do not exceed the current limit indicated in any socket.

NOTE: If a tool or electrical appliance does not reach full running speed within a few seconds after starting, turn it off immediately to avoid damage.

General current requirements for start-up

- White light bulbs and electrical products such as irons and plates use a resistive heating element and require the same amount of electrical energy when starting up as specified on the nameplate.
- Neon and mercury lamps require 1.2 to 2 times the specified power at startup.
- Many electric motors and power tools use a large amount of current when starting up. The current flow required for start-up depends on the type of engine and the purpose of the application.
- Most power tools require 1.2 to 3 times the specified power at startup.
- For the connection of equipment such as submersible pumps and compressors, a large amount of current is required at start-up, even up to 3-5 times the specified power.

If the power of an appliance or power tool is not specified, it can be calculated by multiplying the necessary voltage and amperage values.

Single-phase: $\text{VOLTS} \times \text{amp} = \text{WATTS}$

Three-phase: $\text{VOLTS} \times \text{AMP} \times 1,732 \times 0.8 = \text{WATTS}$

7.3 Current derating

Due to differences in temperature and altitude, generators operate differently. Due to the lower air pressure, unmodified internal combustion engines operate with reduced performance at high altitudes. This means less power and therefore less electricity needed. As temperatures rise, the engine runs less cheaply and the electrical parts have more resistance.

For every 300 m of altitude greater than 1,500 m above sea level, the power of the generator is reduced by 3.5%. At temperatures above 40°C, the power of the generator is reduced by 3% for each additional 5°C range. The tables shown help to determine the power derating in correlation with outdoor temperature and altitude. To determine the actual power of the generator, it may be necessary to take into account both altitude-related and temperature-related derating factors.

Outdoor temperature °C	Derating	Factor
45	3%	0.97
50	6%	0.94
55	9%	0.91
60	12%	0.88

Altitude m	Derating	Factor
1800	3.5%	0.965
2100	7%	0.93
2400	10.5%	0.895
2700	14%	0.86
3000	17.5%	0.825
3300	21%	0.79
4000	24.5%	0.755

7.4 Earthing



ATTENTION

The neutral conductor of this appliance is not earthed. **Under normal operating conditions, do not insert the earthing rod into the ground.**

Refer to local regulations if the appliance is used to power a building or similar distribution system.



With generators that must be able to supply a plant in a TT system, or if differential protection is required in the TN system, or when the appliance is to be used to provide additional protection due to particular conditions or regulations, only 30 mA differential switches may be used as protection devices. The 30 mA circuit breaker must be installed to the same generator, or at least as close as possible to the generator. Only with this type of system is it possible (and necessary) to ground the generator with the point provided on the frame (See earthing symbol 5019).

7.5 Operation with heavy loads

This generator cannot run for more than 20-30 minutes at maximum rated power. For continuous operation, do not exceed the continuous power of the generator. Refer to the generator's Technical Data in this operator's manual.

7.6 Installation

Install the generator in a position sheltered from rain, snow or other sources of moisture. The surface must be solid and flat to prevent it from slipping or moving. The engine exhaust must not be directed towards people.

Both the work area and all components must be protected from any form of moisture.

7.7 Using extension cables

When connecting an electrical appliance or tool to the generator with an extension cord, a power loss occurs: the longer the cord, the greater the power loss. This means that less voltage is conveyed to the electrical appliance: energy consumption increases or power is reduced. To reduce the voltage loss, an extension cable with a larger diameter can be used.

NOTE: Operation of a low-voltage electrical appliance may cause overheating.

The table serves as a guideline in choosing the correct cable size.

Only flexible cables with durable rubber coating according to IEC 60245-4 or equivalent can be used.



WARNING

Damaged cables can cause electric shock, which can cause serious injury or death. NEVER use worn, bare or frayed cables. Replace damaged cables immediately.

Never exceed the rated power of the cable.

If you have any questions about the use of the cable, please contact the manufacturer.

Select the cable size from the *Minimum extension cable size* table or calculate the minimum section with the help of the *Minimum extension cable size chart*. The X-axis of the graph represents the values A x m (amperes x metres). The Y-axis represents the cable section in mm². Multiply the load operating current in Amps (A) by the desired extension cable length in metres (m). Then look for the result on the X-axis. Proceed along the graph until you find the point for the desired field of application. Finally, read the recommended minimum cable length on the Y-axis.

Example

If for example in a three-phase application with 400 V the load operating current is 15 A and the desired extension cable length is 100 m, then:

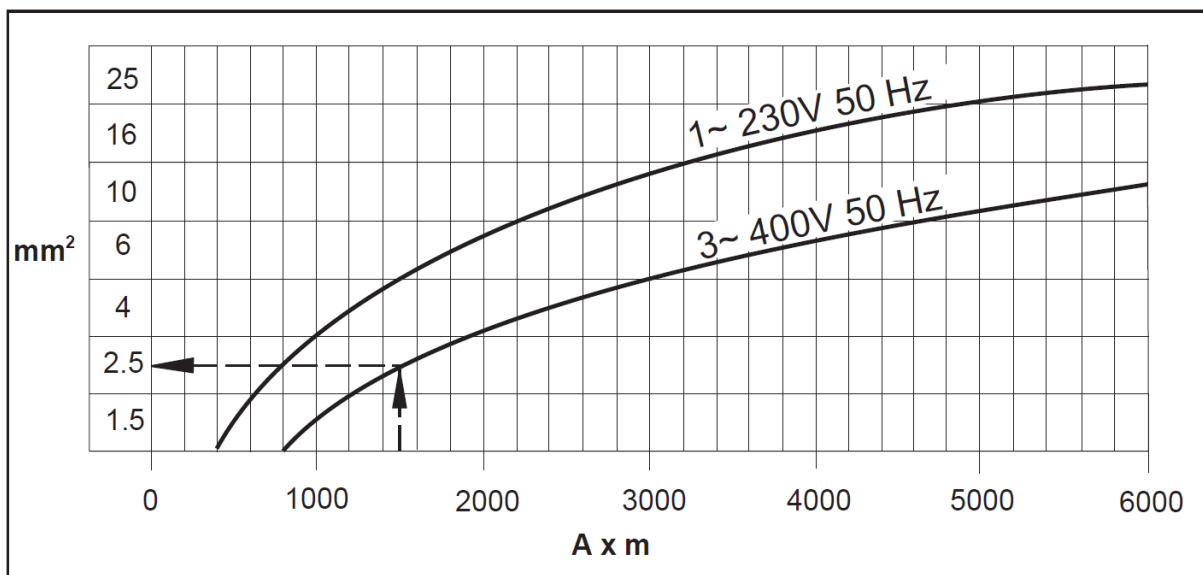
$$15 \text{ A} \times 100 \text{ m} = 1500 \text{ A} \times \text{m}.$$

$$1500 \text{ A} \times \text{m} = 2.5 \text{ mm}^2.$$

Table minimum extension cable size

Output in Ampere	Minimum extension cable size							
	230V/1~/50Hz				400V/3~/50Hz			
	Length m				Length m			
	25	50	100	200	25	50	100	200
Cross-section in mm ²								
2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
4	1.5	1.5	1.5	2.5	1.5	1.5	1.5	1.5
6	1.5	1.5	1.5	4	1.5	1.5	1.5	2.5
8	1.5	1.5	2.5	6	1.5	1.5	1.5	2.5
10	1.5	1.5	4	6	1.5	1.5	1.5	4
15	1.5	2.5	4	10	1.5	1.5	2.5	6
20	1.5	4	6	16	1.5	1.5	4	6
30	2.5	4	10	25	1.5	2.5	6	10
40	4	6	16	---	1.5	4	6	---

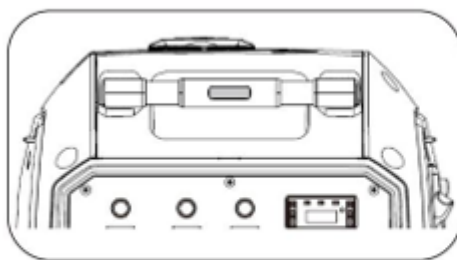
Minimum extension cable size chart



7.8 Using the drawbar

Before using the drawbar, make sure the generator is positioned on a flat surface.

Using the drawbar: hold the drawbar still and press the button on the bar; then, stretch the bar outwards until you hear a "click", which indicates that the drawbar has been completely extracted; at this point, you can move the generator with the bar.

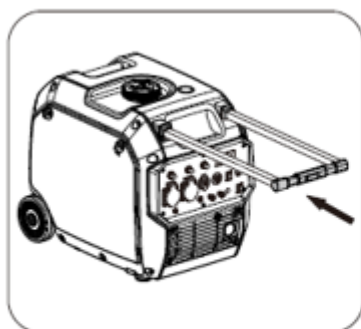


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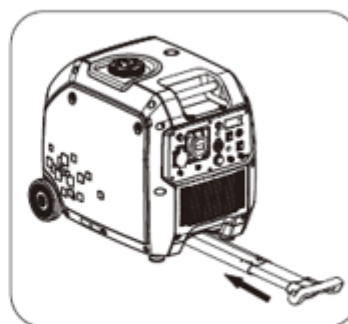


PRM6500

Press the pull bar button and, keeping the lever pressed, push it inwards, in the direction of the generator, in the original position, until the pull bar emits a "click", which indicates that it has been reset.



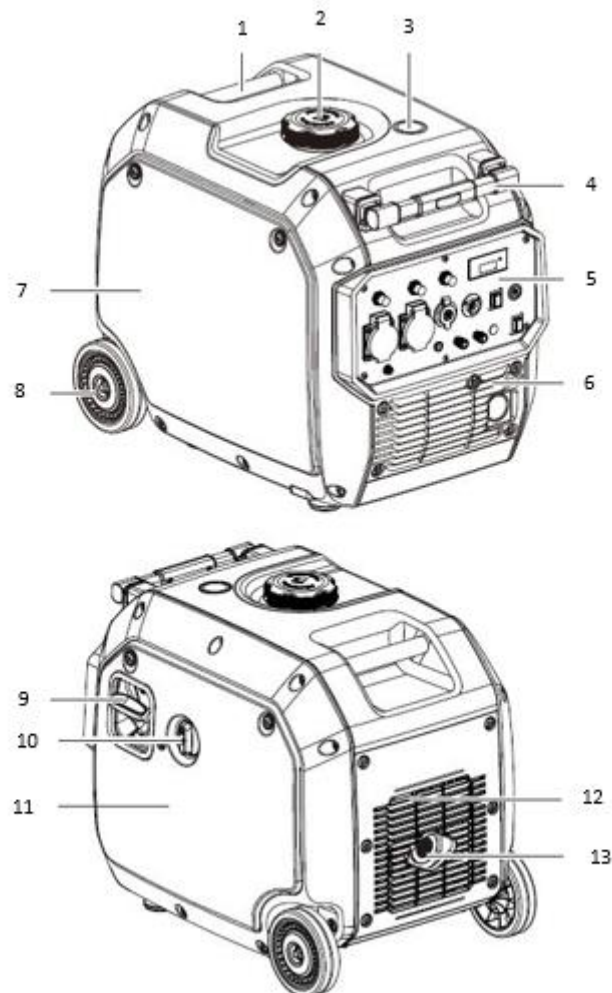
PRM4500



PRM6500

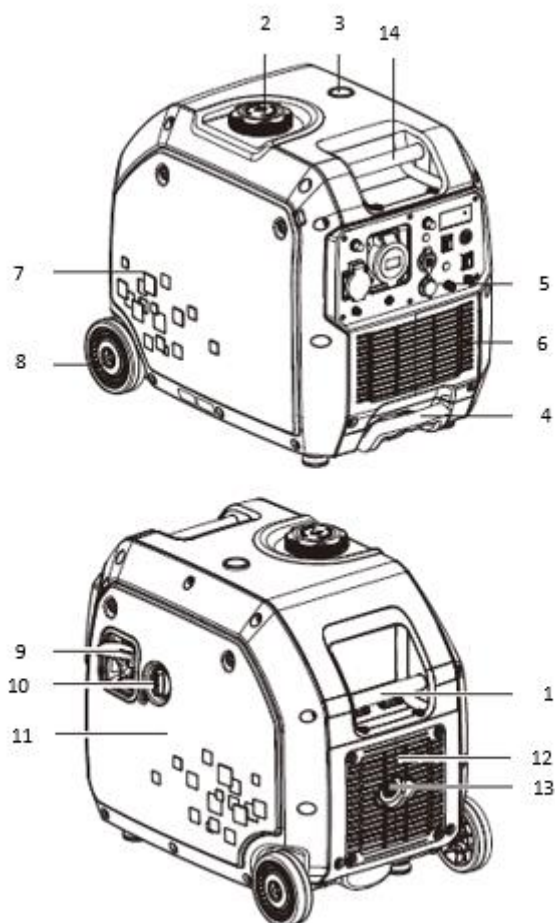
7.9 Overview

7.9.1 PMI4500



1. Rear lift handle	2. Fuel tank cap
3. Fuel level indicator	4. Lever
5. Dashboard	6. Air inlet grille
7. Left maintenance panel	8. Wheels
9. Manual start handle	10. Combination switch (stop, shutdown, operation and choke)
11. Right maintenance panel	12. Muffler grille
13. Silencer	

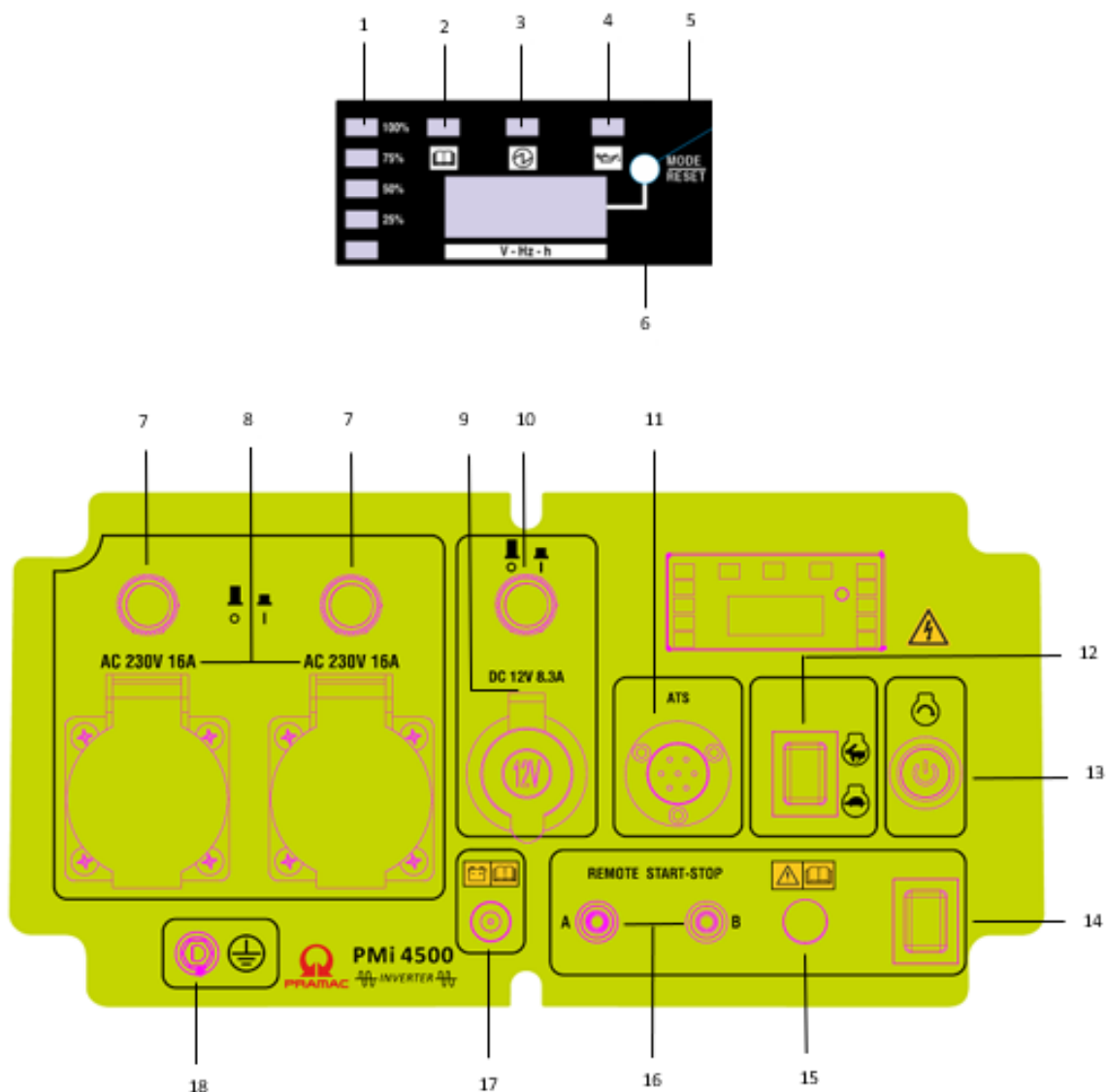
7.9.2 PMI6500



1. Rear lift handle	2. Fuel tank cap
3. Fuel level indicator	4. Lever
5. Dashboard	6. Air inlet grille
7. Left maintenance panel	8. Wheels
9. Manual start handle	10. Combination switch (stop, shutdown, operation and choke)
11. Right maintenance panel	12. Muffler grille
13. Silencer	14. Front lifting handle

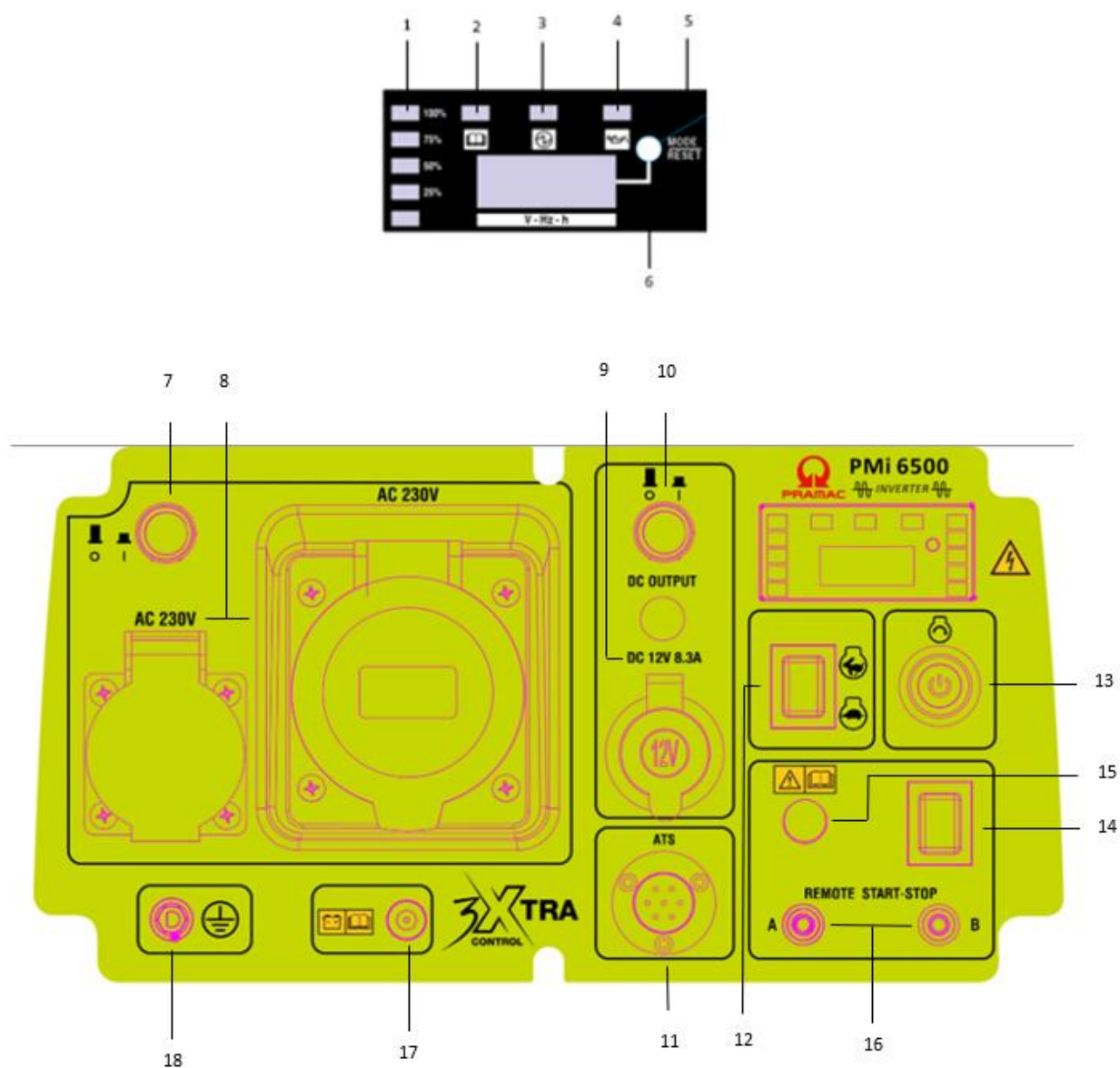
7.10 Control panel

7.10.1 PMI4500



1. Power indicator	2. Overload indicator
3. Operation indicator	4. Oil level indicator
5. Fuel display (if applicable)	6. Reset button
7. AC switch	8. AC output socket
9. DC 12V	10. DC switch
11. ATS connector	12. ECO Mode
13. Power Button	14. Remote mode switch
15. Remote mode light	16. Remote ignition terminal
17. Battery charging port	18. Ground terminal

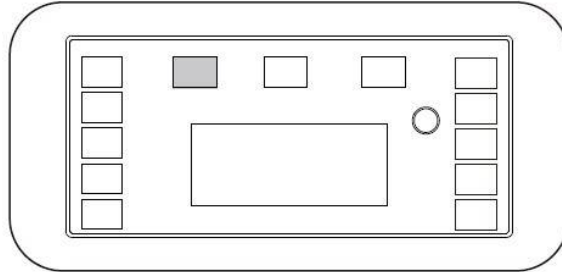
7.10.2 PMI6500



1. Power indicator	2. Overload indicator
3. Operation indicator	4. Oil level indicator
5. Fuel display (if applicable)	6. Reset button
7. AC switch	8. AC output socket
9. DC 12V	10. DC switch
11. ATS connector	12. ECO Mode
13. Power Button	14. Remote mode switch
15. Remote mode light	16. Remote ignition terminal
17. Battery charging port	18. Ground terminal

7.11 Control functions

Overload indicator (red)

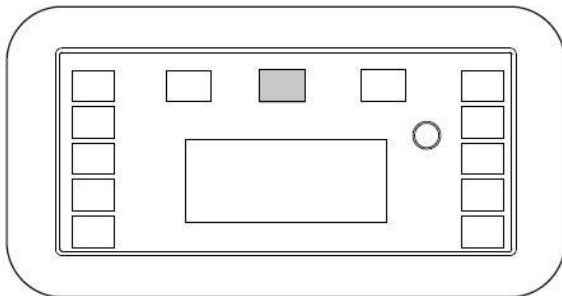


When the overload indicator is on, it indicates that the generator is overloaded and therefore the AC protector is working. It will stop the output of the generator set to protect the electrical equipment and the generator set itself. At this time, the operation indicator (green) is off and the overload indicator (red) is on, but the engine is still running.

When the overload light flashes and the generator has no power, take the following measures:

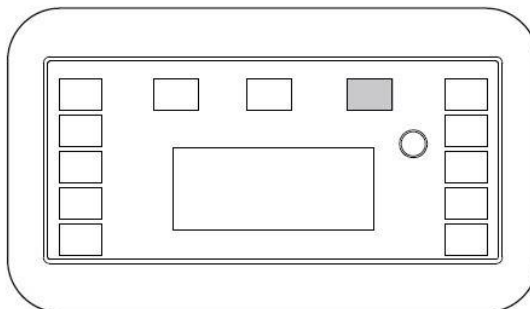
- Reduce the total power of the connected electrical device within the range of the rated power.
- Check whether the cold air inlet is blocked by foreign bodies and whether the relevant control parts are abnormal. If there is a problem, delete it immediately.
- Press the reset button.

Operating indicator (green)



The operating light comes on when the generator set starts and has normal power.

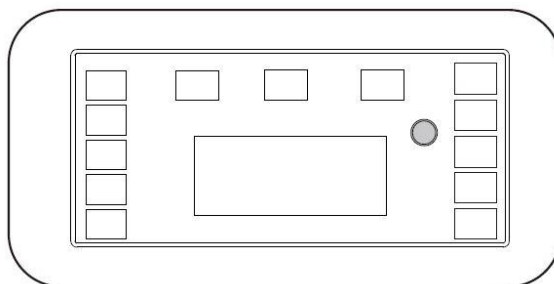
Oil level indicator (yellow)



When the oil level falls below the lower limit, the oil protection system automatically stops the engine and the oil level indicator flashes by pulling the starter. The engine does not run until the oil has been filled to the correct level.

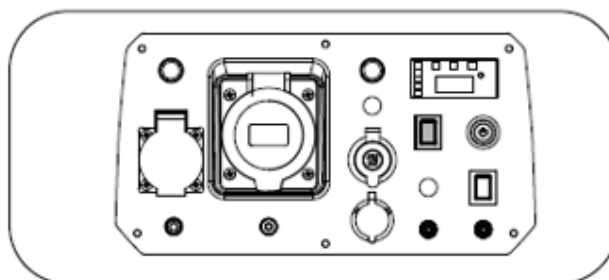
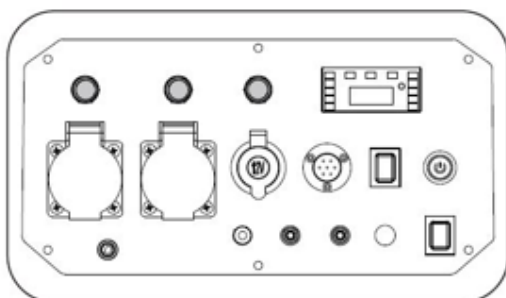
NOTE: If the generator fails to start when the engine is off, turn the combination switch to the “RUN” position, then pull the start handle. If the oil alarm light turns on, it means that the oil capacity is insufficient, add oil and restart.

Reset button



When the generator produces overload protection with no output, reduce the load and then gently press the reset button to reset the output. Under normal use, press the reset button to switch the display of voltage, frequency, operating time, etc.

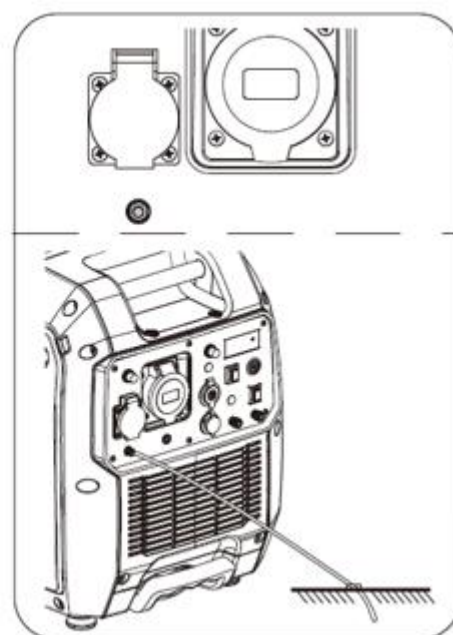
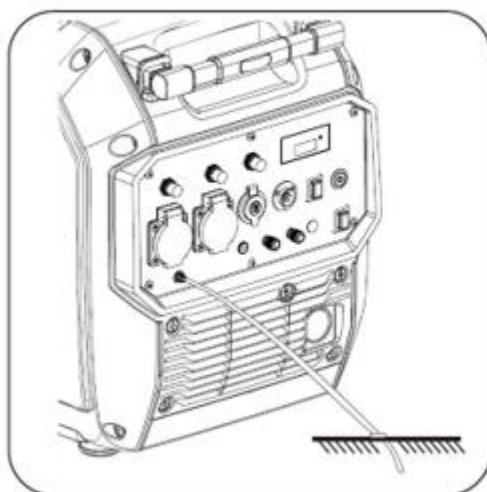
ECO Mode



If the electrical equipment requires a high starting current, set the ECO mode to the "OFF" position. When, on the other hand, the electrical equipment needs a small starting current, set the ECO mode to the "ON" position.

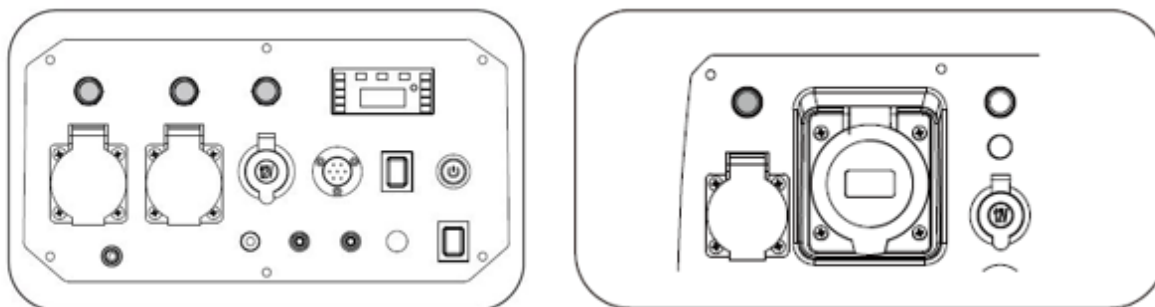
NOTE: When using equipment with high starting current (such as air compressors, submersible pumps, etc.), set the ECO mode to the "OFF" position.

Ground pin



A cable must be used to connect the ground pin to the ground to avoid electric shock due to device failure. Before using the generator, make sure the ground wire is connected.

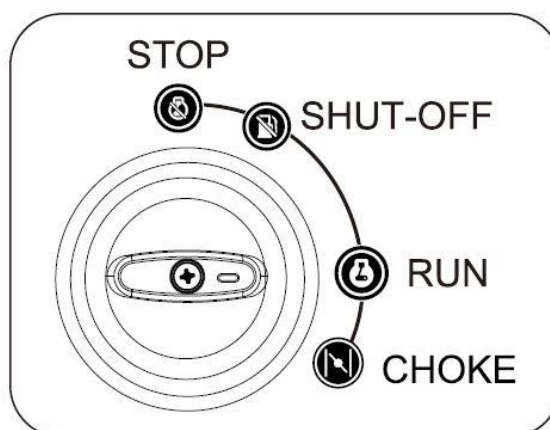
Overcurrent Protector (Switch)



If the generator is overloaded or overheated for a long time, the overcurrent protection device disconnects the output; in this case, reduce the load again or run it without load for a few minutes, then press the overcurrent protection button to restore the output.

NOTE: the overcurrent protector depends on the operating current; ambient temperature and other factors; therefore, the protection time will be different.

Combination switch



STOP: the generator stops working.



CAUTION: after removing the load from the generator, run it without load for three minutes to balance the temperature, then activate the shutdown function.

SHUTDOWN: the fuel supply in the tank stops, the generator keeps running and burns the excess fuel in the pipe before shutting down.



WARNING: if the generator is not used for a short time, enable this function or unscrew the fuel discharge bolt to discharge the fuel in the tank from the generator.

RUN: the generator works normally.

AIR PULL: turn to this start position to start the generator when the engine is cold.

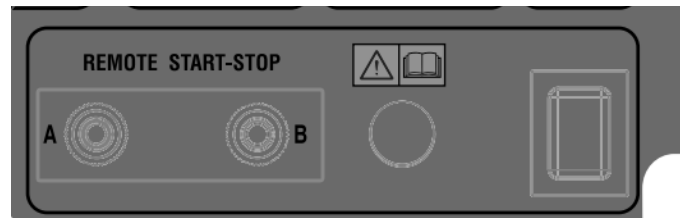
When using electric start or remote start (two-wire) to start the generator, the air pull of the engine is automatic; but when the battery is discharged and the generator is started by tear start, you need to pull the air manually with this command.

Remote start (two-wire)

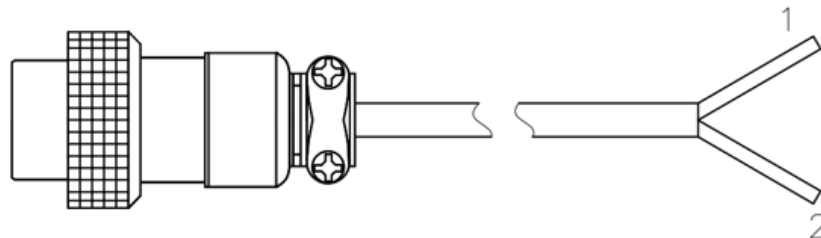
The machine must be in standby for the remote start to work.



Turn the switch to "ON" to activate the remote starting system (2-wire), the light turns on to indicate that the remote mode (2-wire start) is active. To deactivate the remote ignition mode, turn the switch to "OFF", the light will turn off to indicate that the remote mode is off and then the generator can be started via the remote control.



Insert the connection cable into the socket.

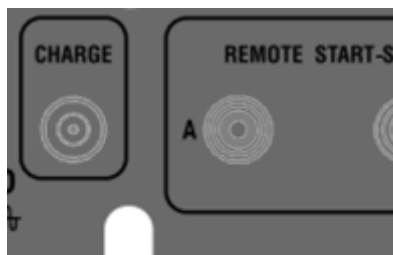


Connect 1 and 2 of the connection cable to the external start switch button. When the generator is turned off and the contact is closed, the engine starts and remains running as long as the contact remains closed. When the generator is running and the remote start contact is opened, the generator shuts down.

<i>CONTACT 1-2</i>	<i>GENERATOR SET</i>
CLOSED	Startup/Running
OPEN	Stop

Battery charging port

If is necessary to recharge the battery, is possible to connect the battery charger to the provide port.



Wireless remote control

The generator and remote control have been successfully paired at the factory and users must not perform any pairing operation at the time of use. If the wireless remote must be re-associated, choose the correct pairing method based on the actual configuration.

NOTE: the generator can be paired with up to 2 remote controls; if one remote has been paired and you want to pair a second remote, follow steps 1,2,4,5 and skip step 3.

NOTE: The operating distance of the remote control is within 50 meters (including 50 metres).

Instructions for pairing the remote control:

Mode 1: (with learning button)

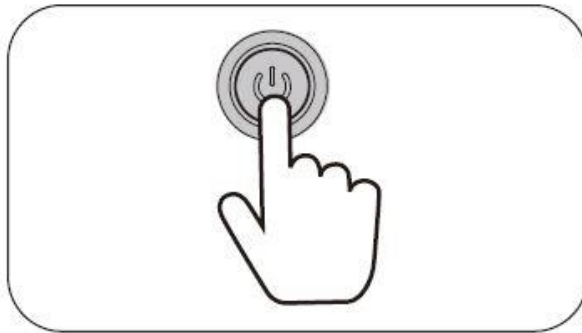
1. Turn the combination switch to "RUN".
2. Press and hold the learn button for 3 seconds and release it when the blue light remains on.
3. Press the "OFF" button on the wireless remote control; the blue light flashes once.
4. Press the "ON" button on the wireless remote control; the blue light flashes once.
5. Press and hold the learn button for 3 seconds, release the button after the blue light goes out and then the remote control can be used. If the startup fails, repeat the previous steps.

Mode 2: (no learn button)

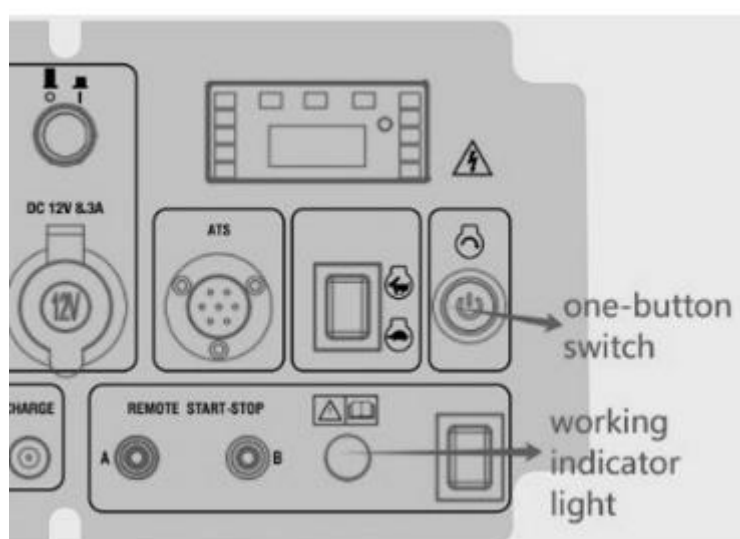
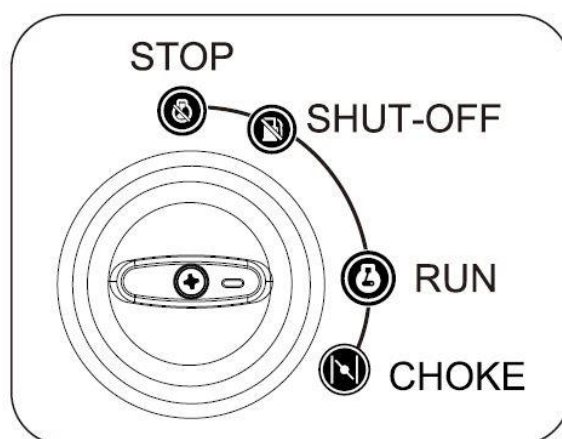
1. Turn the combination switch to "RUN"
2. Press and hold the single power button for 5 seconds, release the button when the green light is on.

3. Press the "OFF" button on the wireless remote control with the green light flashing once.
4. Press the "ON" button of the wireless remote control with the flashing green light once.
5. Press and hold the single power button for 5 seconds, release the button when the green light turns off and then you can use the remote control. If the startup fails, repeat the previous steps.

The generator automatically enters sleep mode after eight hours of inactivity. Before you can use the wireless remote function again, you must press the single start button once to activate the generator.



The battery lasts approximately three months from when the generator enters sleep mode.



7.12 Before startup

DANGER

Carbon monoxide.

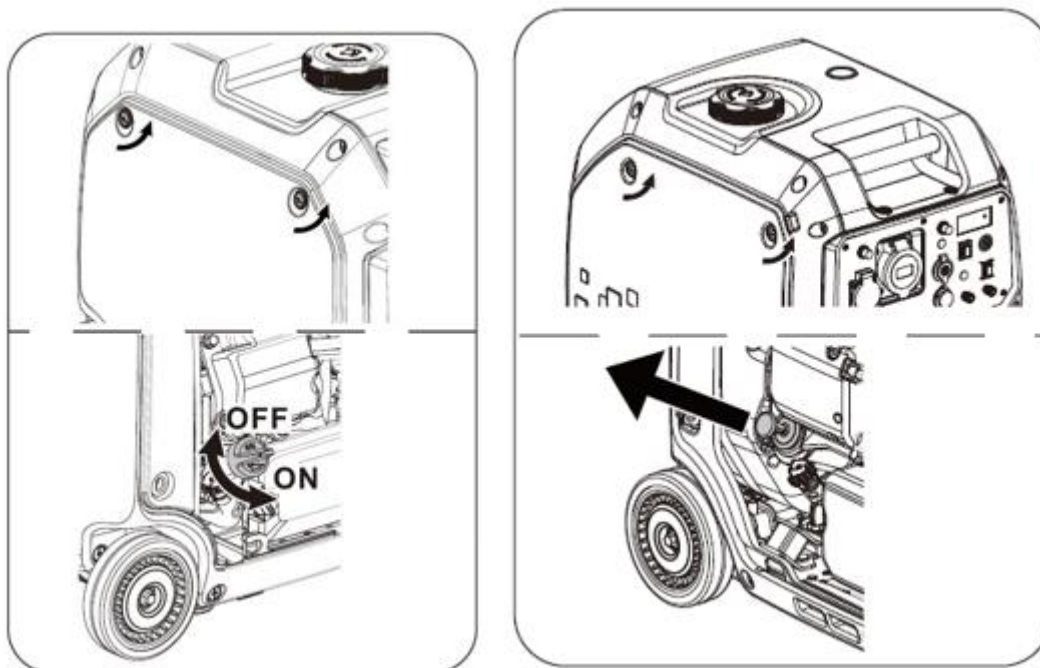
Using a generator inside buildings can LEAD TO DEATH WITHIN MINUTES. The generator exhaust gases contain carbon monoxide (CO). This is an invisible, odourless poison. When the odour of the generator exhaust gas is heard, CO. is inhaled. But it can happen that you inhale CO even if you do not smell it.

1. Read and understand the safety and operating instructions at the start of these instructions for use.
2. Read and understand all explanations of safety and warning symbols.
3. Check:
 - Engine oil level.
 - Fuel level.
 - Air filter condition.
 - Correct installation of external fittings.
 - Fuel supply pipe conditions.

Topping up the engine oil

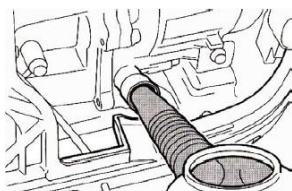
The generator is shipped without engine oil. DO NOT add fuel or start the engine until the oil has been changed.

NOTE: To add engine oil, remove the side panel of the unit.

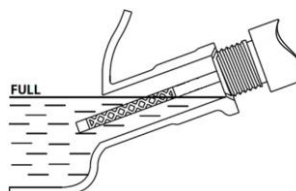


(Figure 2)

Place the generator on a level surface. DO NOT tilt the generator while adding oil. This may result in overfilling and/or oil spills in areas where it should not come into contact. Remove the oil cap (see figure 2).



(Figure 3)



(Figure 4)

Using the funnel (supplied), fill with 0.78 litres of SAE 10W-30 or 10W-40 oil (supplied, see figure 3). See figure 4 for the correct oil level.

Replace the oil cap and the side panel, fixing it with the screws.

Recommended engine oil:

- A. YAMALUBE4(10W-40)
SAE10W-30 or 10W-40
- B. SAE #30
- C. SAE#20
- D. SAE#10W

Recommended engine oil category: API Service type SE or higher.

Engine oil quantity: See **Technical Data**.



CAUTION: use the generator only on a flat surface. The engine is equipped with an engine oil alarm: when the oil level drops to the usually lower limit, the generator

shuts off automatically. To avoid inconvenience caused by sudden shutdowns, add oil to the upper limit and check the oil level regularly.



WARNING: the engine is not filled with oil before delivery. Any attempt to rotate the crankshaft or start the engine before incorrectly adding oil of recommended grade and capacity may cause permanent damage to the engine and void the product warranty.

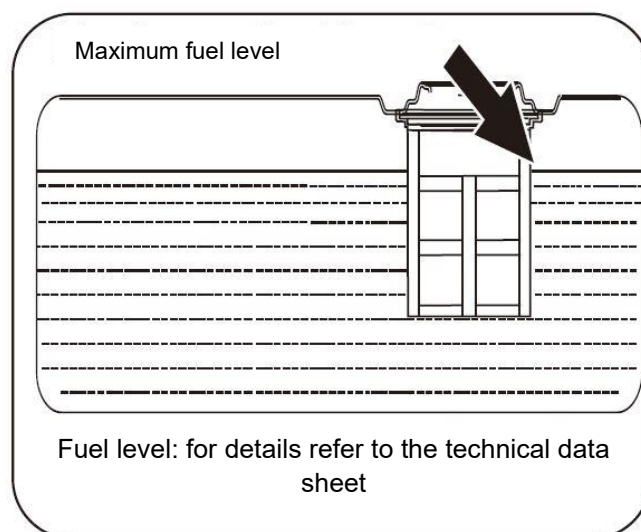
Refuelling

For the capacity of the tank, see the **Technical data** section.

DO NOT fill the tank beyond the limit, to prevent it from leaking: the fuel expands when heated.

NOTE: For safety reasons, after refuelling the fuel tank, the unit cannot be returned to the dealer.

1. Use normal unleaded fuel, new and clean, with a minimum octane rating number of 87
2. DO NOT mix oil with fuel.
3. Clean the area around the fuel cap.
4. Remove the fuel cap.
5. Make sure the fuel filter is present.
6. Slowly add fuel to the tank.
7. Do not exceed the upper limit mark on the fuel filter.



8. Put the cap back on and clean any leaked fuel with a clean cloth.

NOTE: This portable generator cannot be used with petrol/ethanol blends with ethanol content greater than 10%. Do not use alcoholic petrol that has a content of more than 5% methanol.

NOTE: Use only unleaded petrol. The use of leaded petrol causes serious damage to the internal parts of the engine.

After refueling, make sure the fuel cap is tight enough.



DANGER: Fire or Explosion.

Petrol is a flammable and explosive substance.

Do not fill the fuel tank indoors, when the generator is running or at high temperature.

Refuelling in the tank must be carried out outdoors, in a well-ventilated environment and with the generator switched off. At the end of each refueling, the excess fuel must be dried.

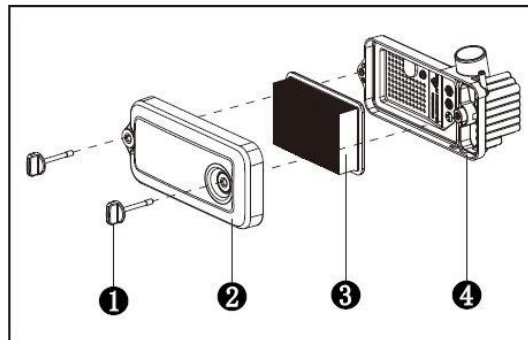
Regularly inspect the power supply system for any damage or leakage. Do not operate the generator when there is a leak in the power system.

Use appropriate fuel storage units and storage measures. It is forbidden to store fuel or flammable materials in its vicinity.

Check the air filter

Check the inside of the air filter, accept that it is clean and working well. Remove the outer cover, loosen the screw on the air filter cover, and remove the air filter cover to check the inside.

Clean or replace the inside of the filter if necessary.



1. Air filter fixing bolt	2. Air filter cover
3. Paper air filter element	4. Air filter base



ATTENTION

Do not run the engine without the air filter so that dirt does not enter the engine through the carburetor: this would result in rapid wear of the engine itself.

7.13 Starting the generator

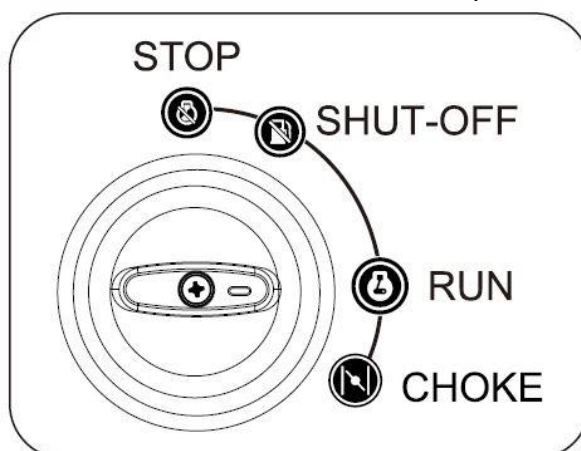
USE THE GENERATOR IN A WELL-VENTILATED ENVIRONMENT.

DO NOT connect any electrical device to the generator sockets before starting the engine.

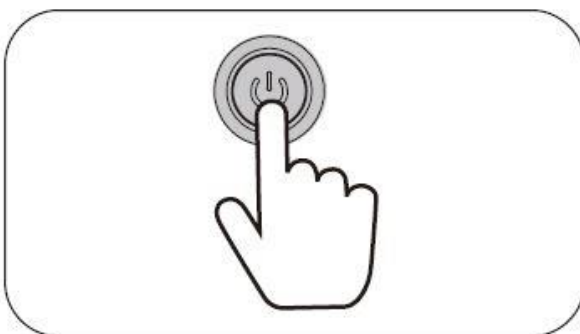
Select based on the user's actual configuration.

Electric start with single button

1. Turn the combination switch to the "RUN" position.



2. Press the power button and release it after starting the engine.



If it does not start, release the switch. The unit will reboot itself. If it does not start after repeating 6 times, let the generator cool for 1 minute and restart it.

NOTE: if the electric start fails, you can try the manual start.



CAUTION: after the generator has been used for a period of time, if the engine ignition speed decreases, it means that the battery needs to be replaced. Before turning off the generator, make sure that the combination switch is in the OFF position, to avoid the loss of battery power, which could affect the next start.

If the generator still does not start or shuts down after three attempts, locate the cause of the failure and eliminate it.

The engine oil alarm prevents the generator from starting when the oil level in the crankcase is below the lower limit.

Before the operation, carry out a routine inspection of the oil. The recommended maintenance interval can be found in the maintenance section.



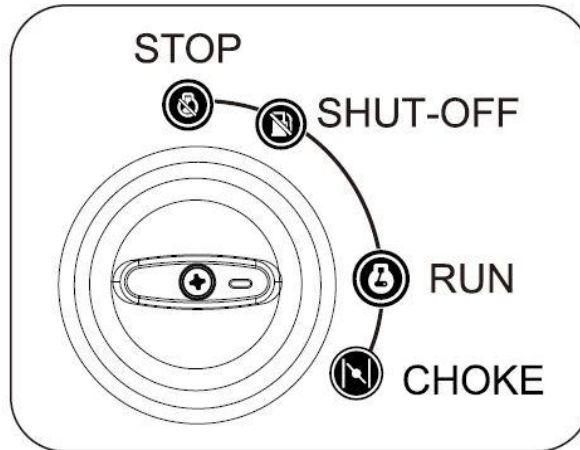
CAUTION: the engine must not exceed 15 seconds for each continuous start. If it does not start, allow the generator to cool for 1 minute before the next startup attempt. Otherwise, the starter engine will be damaged.

Electrical start with remote control

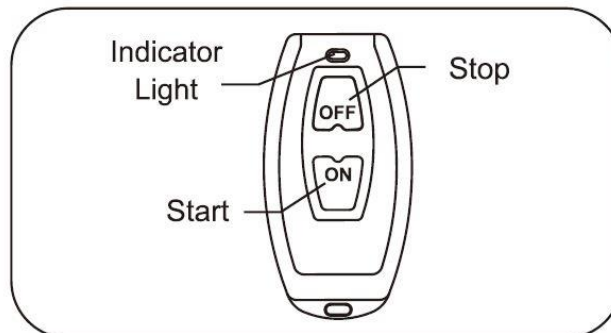


WARNING: if the generator is not used for 24 hours, press the button to activate it before using the key with remote control.

1. Turn the combination switch to the "RUN" position



2. Press and hold the ON button for 1 second and release it to start the generator. If it does not start release the switch. The unit will reboot itself. If it does not start after repeating 6 times, let the generator cool for 1 min and try again.



NOTE: sometimes the generator may require a few attempts to start in cold weather. If the machine does not start within the first 10 seconds, wait 30 seconds before trying again.

If the engine turns a little and then stops when the start button is pressed, it could indicate a low battery. Charge the battery before operation or start with pull start.

Manual pull start:

1. Cold start and hot start.

cold start.

To deactivate the starter, turn the combination switch to the "Air pull" position.

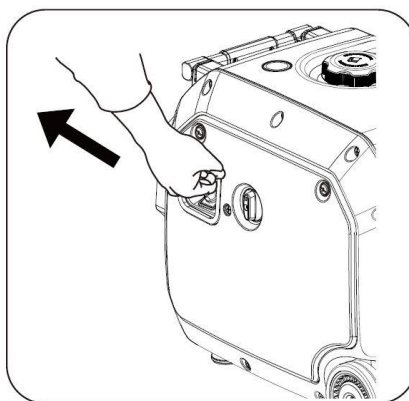
Hot start.

Turn the combination switch to the "RUN" position; if it is not started, turn the combination switch to the "AIR PULL" position before restarting.

2. When starting the engine, grasp the pull handle of the starter and pull slowly until resistance is felt. Then pull quickly to avoid kickback. When pulling the starter, grasp the generator firmly to prevent tipping of the generator or personal injury caused by tipping.

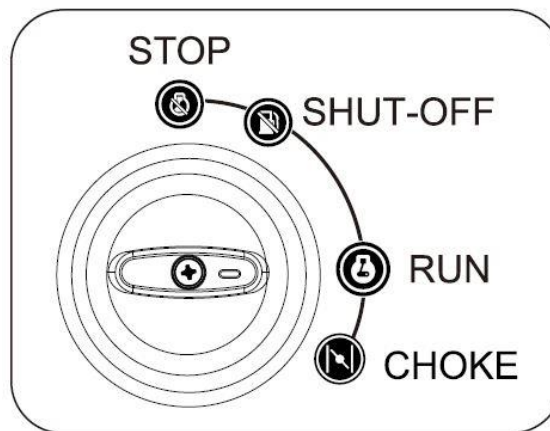


CAUTION: Please check the condition of the starter rope before use. If the rope is seriously worn, replace it in time at a local authorised dealer.

**CAUTION:** pull start.

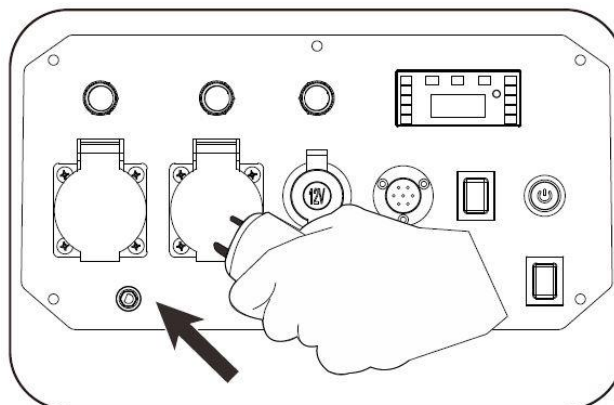
When the recoil start retracts quickly after starting, the hand and arm will be pulled faster towards the engine. Lack of preparation can lead to accidental injury.

3. Turn the combination switch to the "RUN" position



NOTE: this step applies only to "Cold start" hook start.

- 1) After completing the operations described above, the generator can be connected to the electrical appliances.



WARNING: When the output terminal of the generator is connected to the electrical device, it is connected to the electrical device, and the electrical device is turned on, it is forbidden to start or turn off the generator.

7.14 Connecting the electrical device

- a. Check if the power cord is damaged before use. If the cable is deformed, for example has deformations and incisions, this will result in the risk of electric shock.
- b. Confirm that the generator is earthed. If the electrical device requires earthing, the generator must be earthed.
- c. Ensure that all electrical devices are switched off.
- d. After starting the generator, let it run for a few minutes to allow it to warm up to a steady state.
- e. Confirm the connection and then turn on the expected electrical device.

- f. Before stopping the generator, turn off the electrical device or disconnect the output.
- g. If the generator supplies power to more than one electrical device, start each electrical device according to the size of the load, from small to large.



DANGER: if the connected device overheats, turn it off immediately and disconnect it from the generator.



DANGER: electric shock.

To reduce the risk of electric shock, do not use old, worn or exposed cables that may involve the risk of electric shock.

It is forbidden to touch exposed wires or plugs.

It is forbidden to operate the generator or electrical cable in the water, barefoot, with wet hands or feet.



CAUTION: the generator set must be equipped with a circuit breaker or protector to isolate the generator set from the power grid when the generator set is primarily used for backup. Failure to isolate the generator from the power grid may result in injury or death to power grid workers and damage to the generator due to the return of electricity.

7.15 Stopping the generator set

1. Switch off the electrical appliances and then disconnect all the plugs of the electrical appliances from the panel



WARNING: do not turn off the generator while the electrical appliance is connected and running

2. Leave the generator running without power for 3 minutes to stabilise the internal temperatures of the engine and generator.
3. Select based on the user's actual configuration.

Communication button:

press the switch button to turn off the generator. After switching off the generator, turn the combination switch to the "stop" position.

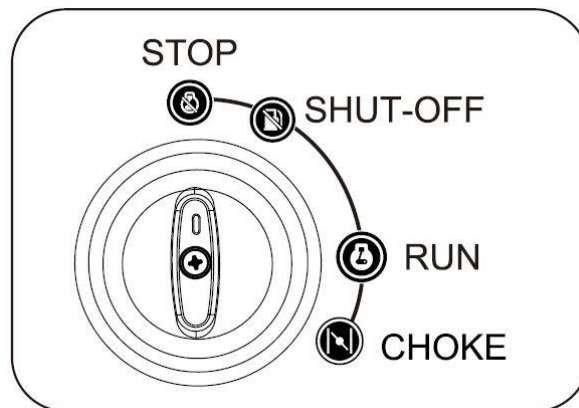
Wireless Remote Shutdown:

press and hold the "OFF" button for at least 0.3 seconds to stop the generator. After the generator has stopped, turn the combination switch to the "STOP" position.

NOTE: When the control distance is reduced or the indicator light is on but the remote control function is not available, replace the battery of the wireless remote control. Contact your local retailer for more information.

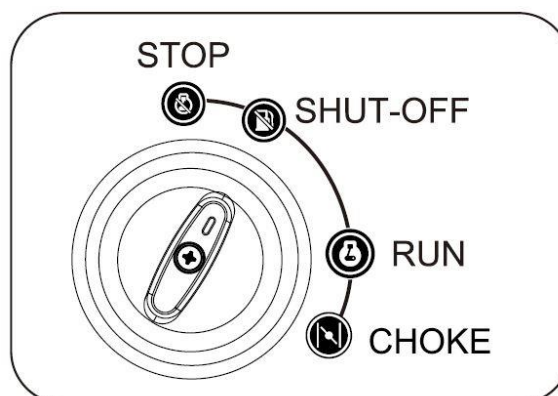
Combination switch stop

By turning the combined switch to the "STOP" position, the generator stops working.



If you need to be inactive for a long time, follow these steps:

1. Turn the combination switch to the "OFF" position. Allow the generator to burn off excess fuel in the fuel circuit and the generator will turn off automatically.

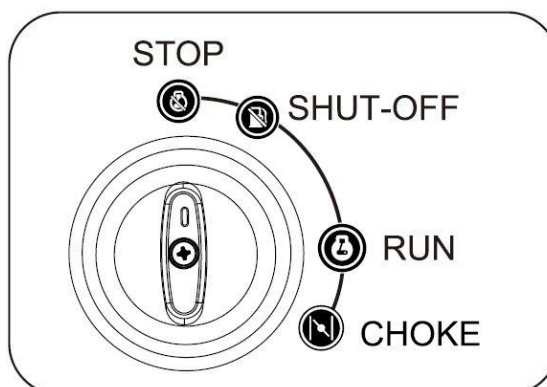


WARNING: The generator is idle for a long time:

If the generator must remain idle for a long time, turn the fuel cock to the "OFF" position. Turn the combination switch to the "OFF" position until the fuel in the fuel oil cup burns and the generator has an automatic flame extinguish.

If the combination switch is not turned to the "OFF" position and the battery is not used for a long time, it will lose power, preventing the generator from starting normally

2. Turn the combination switch to the "STOP" position.



8. Maintenance

8.1 Periodic maintenance plan

The following table contains the fundamental maintenance operations of the machine. Tasks marked with a check mark can be performed by the user. Tasks marked with a square require specific training and specialised equipment.



WARNING

Turn off the engine before making any repairs. If it is necessary to run the engine during repair, make sure the area is well ventilated, as the exhaust gases contain highly toxic carbon monoxide (CO).



ATTENTION

Use original components of PMi 4500. Unqualified components may damage the generator.



WARNING: the filter element may contain PAHs; PAHs are harmful to health. Please wear protective gloves when servicing the air filter.

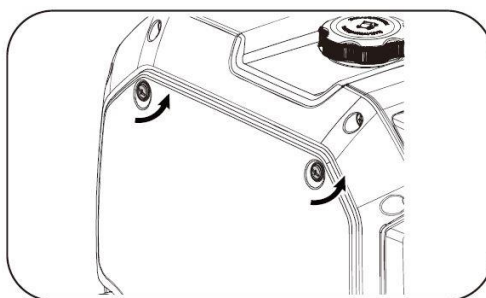
	Daily before use	After the first month or 20 hours	Every 3 months or 50 hours	Every 6 months or 100 hours	Annually or 200 hours
Check the fuel level.	✓				
Check the engine oil level.	✓				
Check the air filter.	✓				
Check external fasteners.	✓				
Check the air filter elements. *			✓	✓	
Check for damage to the bumper.				✓	
Change engine oil *		■		■	
Check and clean the spark plug.				■	
Replace the spark plug.					■
Clean the fuel settling tank.				■	
Clean the spark arrester.				■	
Check valve clearance and adjust.					■
Check the fuel tank and filter. *				■	
Check the fuel supply pipe. Replace if necessary.					■

* In dusty areas clean more often.

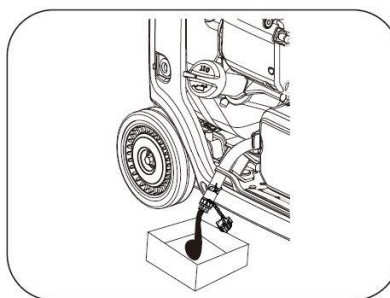
8.2 Engine oil replacement

The first replacement of the engine oil must be made one month or 20 hours after commissioning.

1. Place the generator on a level surface and allow the engine to warm up for a few minutes. Then turn off the engine.
2. Remove the left maintenance panel after unscrewing the fixing bolts.



3. Remove the oil filter plug.
4. Place an oil pan under the engine. Tilt the generator and drain the oil completely.

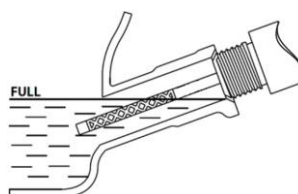


NOTE: Drain the machine oil quickly and completely when the engine is still warm.

5. Reposition the generator on a flat surface.

NOTE: DO NOT tilt the generator while adding engine oil. This could cause overfilling and damage to the engine.

6. Add engine oil to the level, as shown in Figure 1.



Recommended engine oil: YAMALUBE4 (10W-40), SAE 10W-30 or 10W-40, SAE#30, SAE#20, SAE#10W.

Recommended engine oil category: API Service type SE or higher.

Engine oil quantity: See **Technical Data**.

7. Refit the oil filter cap, panel and screws.



ATTENTION

for compliance with environmental protection requirements, we recommend closing used engine oil in sealed containers, and sending it to the local disposal or recycling center. Do not pour the oil into the ground and do not dispose of it with ordinary waste.

8.3 Air filter maintenance

To be performed every 3 months or 50 working hours. The air filter should be cleaned more frequently if the generator is used in damp or dusty environments.



WARNING

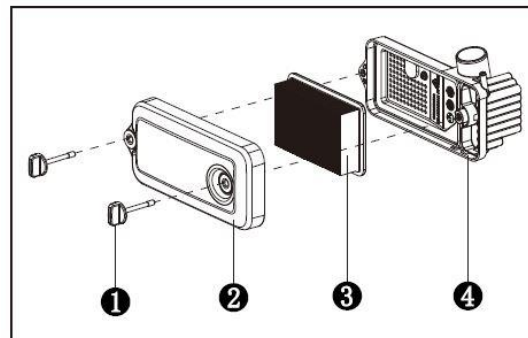
Do not use petrol or low flash point solvent to clean the engine, as they can ignite and explode easily under certain conditions.



ATTENTION

Do not operate the generator without the air filter, or the engine will be severely worn or damaged and the product warranty will be void.

1. Remove the screws and then the panel.
2. Remove the bolt and the air filter cover.



1. Air filter fixing bolt	2. Air filter cover
3. Paper air filter element	4. Air filter base

5. Remove the paper filter element from the air filter.
6. Check whether the entire paper filter element is damaged and, if so, replace it promptly.
7. Gently tap the filter element to drop dust or debris attached to it.
8. Replace the filter element and the air filter cover in the base and fix them with the fixing bolts.

ATTENTION

The air filter is a fundamental element that affects the performance in terms of emission and any form of modification is strictly prohibited.

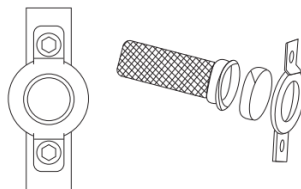


It is strictly forbidden to use organic solvents to clean the paper filter element and to use compressed air to blow and clean it.

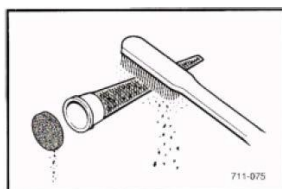
8.4 Maintenance of silencer filter and spark arrester (if equipped)

To be performed every 6 months or 100 working hours. The air filter should be cleaned more frequently if the generator is used in damp or dusty environments.

1. Remove the screws and then the panel.
2. Remove the muffler cap, muffler filter and spark arrester.



3. Remove carbon deposits on the silencer filter and spark arrester using a wire brush. Use the wire brush gently, to avoid damaging the muffler screen or the spark arrester.

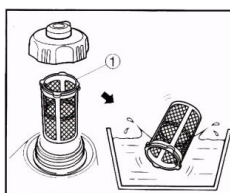


4. Check the silencer filter and the spark arrester, replace if necessary.
5. Fit spark arresters.
6. Fit the muffler cap.
7. Fit the panel and tighten the screws.

8.5 Fuel filter maintenance (if present)

To be performed every 12 months or 300 working hours.

1. Remove the fuel tank cover and filter.
2. Clean the filter with petrol.



3. If damaged, replace.
4. Dry the filter and refit it.
5. Replace the fuel tank cap.



**WARNING**

PETROL IS FLAMMABLE. DO NOT smoke while performing this operation, nor perform it near open flames.

8.6 Spark plug maintenance

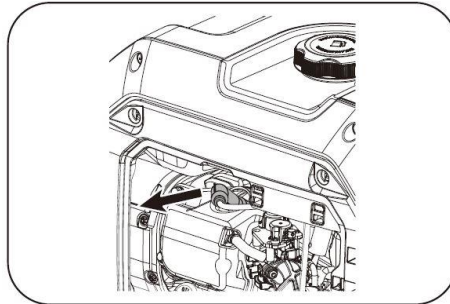
Clean or replace the spark plug if necessary. Refer to the engine manual.

**WARNING**

The muffler becomes very hot during operation and remains hot even for some time after the engine has stopped. Do not touch the hot muffler.

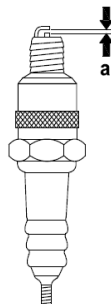
NOTE: For information on the spark plug and the spacing between the electrodes, refer to the Technical Data.

1. Remove and inspect the spark plug.



2. If the insulator is broken or chipped, replace the spark plug.
3. Clean the spark plug electrodes with a wire brush.
4. Set the spacing between the electrodes (**a**).
5. Screw and tighten the spark plug with tightening torque 20-25 Nm

NOTE: A loose spark plug can become very hot and cause damage to the engine.



8.7 Speed

The speed has been preset at the factory and should rarely require a new adjustment. Consult your local authorised retailer for such needs.



WARNING: An unapproved adjustment will damage the engine and/or electrical devices and invalidate the warranty.

8.8 Adjustment

The generator does not require further maintenance and/or adjustment.

Unapproved adjustments or tampering may damage the generator and electrical devices and void the warranty. For these needs, please contact your local retailer.



WARNING: tampering with the regulator set at the factory will damage the generator and invalidate its warranty.

8.9 Long-term storage

Storage for long periods requires some preventive procedures, to avoid deterioration.

Fuel drainage

1. Set the engine switch to "O".
2. Remove the fuel tank cap. Remove the fuel from the tank by saving it in a gas container, using a commercial manual siphon. Replace the fuel tank cap.



WARNING

PETROL IS FLAMMABLE. DO NOT smoke while performing this operation, nor perform it near open flames.



WARNING

Clean the spilled fuel immediately with a clean, soft and dry cloth, as the fuel can deteriorate painted and plastic surfaces.

3. Set the engine switch to "O".
4. Turn the fuel ventilation air intake knob to "ON" and turn the Stop/Operation/Air Valve switch to "Off".
5. Start the engine and leave it running until it shuts off on its own. This time depends on the amount of fuel left in the tank.
6. Remove the screws and then the panel.
7. Drain the fuel from the carburetor by loosening the drain screw on the carburetor float chamber.
8. Set the Stop/Operation/Air Valve switch to "stop".
9. Tighten the drain screw.
10. Fit the panel and tighten the screws.
11. Turn the fuel ventilation knob to "off" (if present).
12. Store the generator in a dry and well-ventilated place, with the case on top of it.

Engine

Perform the following steps to protect cylinder, piston, belts etc. from corrosion.

1. Remove the spark plug; pour one tablespoon of SAE 10W-30 or 20W-40 engine oil into the spark plug housing hole and replace the spark plug cap. Pull the engine start several times (without ignition) to distribute the oil inside the cylinder.
2. Pull the pull start until you feel the compression. Then stop pulling. This prevents rust in the cylinder and on the valves.

3. Clean the outside of the generator and apply a rust inhibitor product.
4. Store the generator in a dry and well-ventilated place, with the case on top of it.
5. The generator shall stand upright during storage, transportation and operation.

Battery

Disconnect the battery.

NOTE: if the battery is not used for more than 3 months, it must be recharged otherwise there is a risk of damage

8.10 Battery**Battery Installation**

Battery terminals, wiring terminals and associated accessories containing lead and lead compounds. Wash hands immediately after handling.

1. Insert the battery into the mounting box.
2. Connect the positive (+) cable to the positive (+) terminal of the battery, tighten the bolt and cover the rubber plug.
3. Connect the negative cable (-) to the negative terminal (-) of the battery and tighten the installation bolt.
4. Install the battery clamp.
5. Replace the battery maintenance cover and tighten the bolts. If the battery maintenance cover is not fitted, it is strictly forbidden to use the generator, as this would compromise the performance of the generator and engine.

Remove Battery

1. Lift the handle, lock it and secure it in place.
2. Loosen the maintenance cover bolts and remove the battery maintenance cover
3. Remove the negative (-) lead from the negative (-) lead of the battery, and then remove the positive (+) lead from the positive (+) lead of the battery.
4. Remove the battery clamp from the hook at the bottom of the generator.
5. Remove the battery from the mounting box.

**ATTENTION**

Batteries produce explosive gases.
Sparks may ignite the battery gas.
Avoid contact with skin, eyes or clothing.
Keep out of reach of children.



ATTENTION

Battery electrolyte is poisonous and dangerous, and causes severe burns, etc. It contains sulfuric acid.

Avoid contact with skin, eyes or clothing.

9. Troubleshooting

Problem	Symptom	Solution
The generator does not start	Turn the combination switch to the "STOP" or "OFF" position	Turn the combination switch to the "RUN" position, then start the generator following the start-up procedure
	Lack of fuel	Fill the fuel tank following the instructions in this manual
	Lack of engine oil	Check the oil level. This engine is equipped with a low oil level sensor. The engine cannot be started unless the oil level exceeds the prescribed lower limit.
	No ignition	Remove the spark plug cap. Clean the dirt around the base of the spark plug, then remove the spark plug. Insert the candle into the candle cap. Turn the combination switch to the "RUN" position. Pull the starter snap and observe if there is an electric spark between the spark plug play. Replace the spark plug if there is no spark. Follow the instructions in this manual to reinstall the spark plug and start the engine. If necessary, consult your local retailer.
	The candle splashed from the fuel	Remove the candle and dry the fuel.
	Low battery power (electric start)	Manually start the generator to charge the battery (time ≥ 30 min).
The generator has no output	Overload protection	Reconnect the circuit breaker or overcurrent protection device
	Installation of mismatched cable or extension cord.	Check the load capacity of the cable or extension cable installation end surface. If necessary, consult your local retailer



WARNING

Accept that there is no petrol leakage from the candle. Overflow could catch fire

10. Disposal

For customers in EU countries

This machine is subject to the European Waste Electrical and Electronics Equipment (WEEE) Directive. The WEEE Directive establishes the framework for the treatment of used electrical equipment throughout the EU.

This equipment is considered as a professional power tool for industrial use only (so-called B2B equipment, compliant with the WEEE directive). Unlike the equipment used mainly at home (so-called B2C equipment), in some EU countries, e.g. in Germany, this machine cannot be delivered to the collection centres of the municipalised urban cleanliness company (e.g. municipal recycling centres). If in doubt, contact the nearest point of sale to obtain information on the form of disposal prescribed for B2B electrical equipment in your country, to ensure that the disposal is carried out in accordance with the relevant legal provisions.

For customers in other countries

It is advisable not to dispose of this machine among normal household waste, but to dispose of it in the appropriate container for eco-compatible collection. National legislation may also provide for specific regulations for the disposal of electrical and electronic products. The correct disposal of this machine must take place in accordance with the national provisions in force on the matter.

11. Technical data

11.1 PMi 4500

Description	Unit of measurement	PMI 4500
Length	mm	578
Width	mm	422
Height	mm	500
Weight	kg	42.5
Engine		GB225CVE-2
Combustion method		Four-stroke
Cooling		Forced cooling
Cylinders		1
Displacement	cm ³	224
Rated power	kw	3.8
Maximum power	kw	4.2
Power factor		1.0
Degree of insulation		F
Ignition system		TCI
Fuel type		Unleaded petrol
Usage time @25%	h	11
Tank capacity	l	12
Operating temperature	°C	-10~40
Maximum installation site altitude	m	1500
Max. oil level	l	0.78
Candle type		A5RTC or NGK CR7HSA
Candle air gap	mm	0.6-0.8
Start-up type		Hook and Loop or Electric Start-Up
Output current	A	8.7
Output Frequency	Hz	50
Voltage	V	230
Phases	~	1
Sockets		2xSCHUKO
LpA level sound pressure @7mt	dB(A)	≤68
Measured sound power level Lwa	dB(A)	≤73
Measurement uncertainty	dB(A)	≤1.5
Guaranteed Lwa	dB(A)	≤93

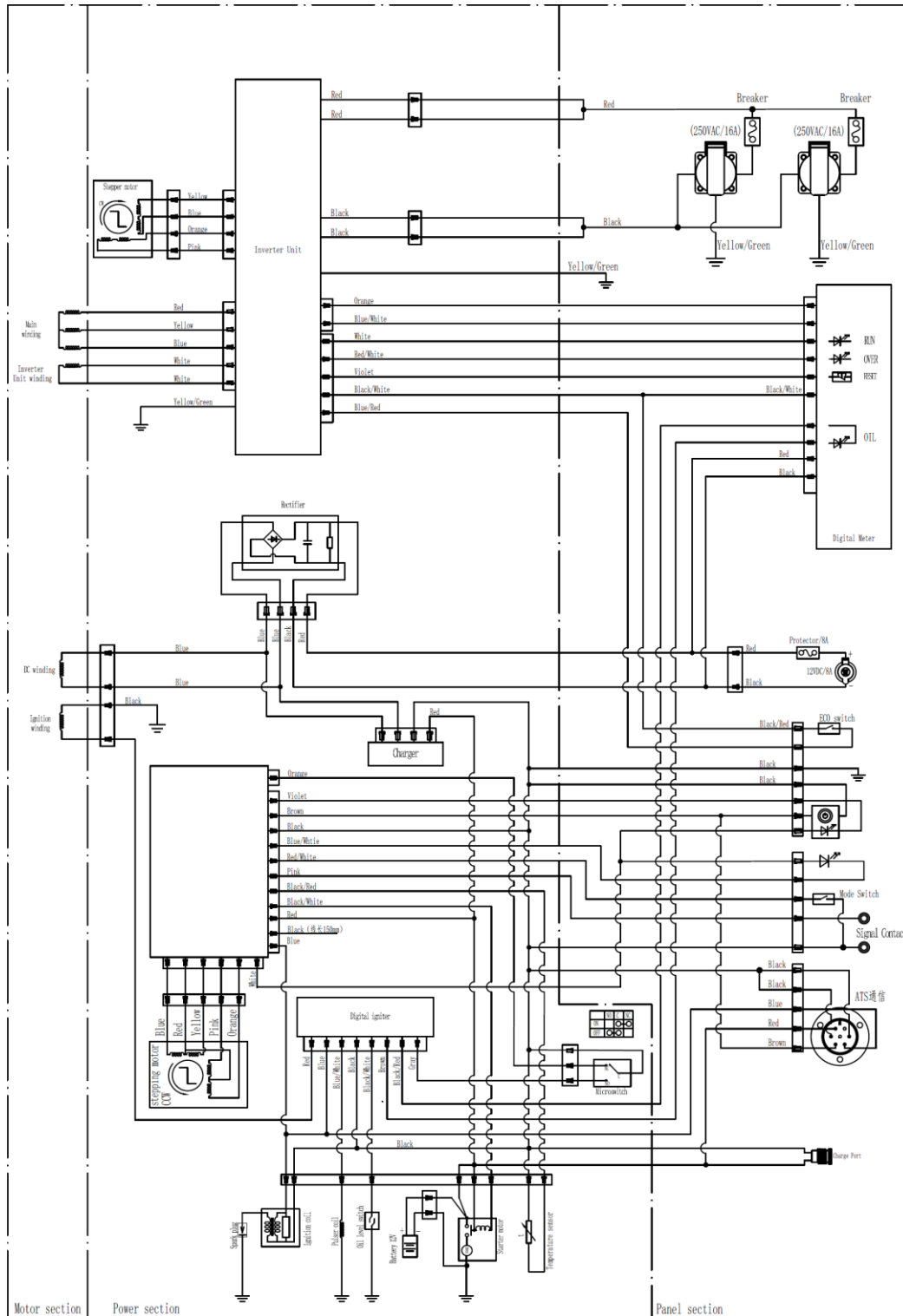
Note: Generator set with different specifications and configurations may have different parameters and may change at any time without notice.

11.2 PMi 6500

Description	Unit of measurement	PMi 6500
Length	mm	625
Width	mm	448
Height	mm	560
Weight	kg	50.5
Engine		GB320E-2
Combustion method		Four-stroke
Cooling		Forced cooling
Cylinders		1
Displacement	cm ³	317
Rated power	kw	6
Maximum power	kw	6.5
Power factor		1.0
Degree of insulation		F
Ignition system		TCI
Fuel type		Unleaded petrol
Usage time @50%	h	6.6
Tank capacity	l	14
Operating temperature	°C	-10~40
Maximum installation site altitude	m	1500
Max. oil level	l	0.85
Candle type		A5RTC or NGK CR7HSA
Candle air gap	mm	0.6-0.8
Start-up type		Hook and Loop or Electric Start-Up
Output current	A	26,5
Output Frequency	Hz	50
Voltage	V	230
Phases	~	1
Sockets		1Xshuko, 1xCEE
LpA level sound pressure @7mt	dB(A)	≤65
Measured sound power level Lwa	dB(A)	≤73
Measurement uncertainty	dB(A)	≤2.9
Guaranteed Lwa	dB(A)	≤96

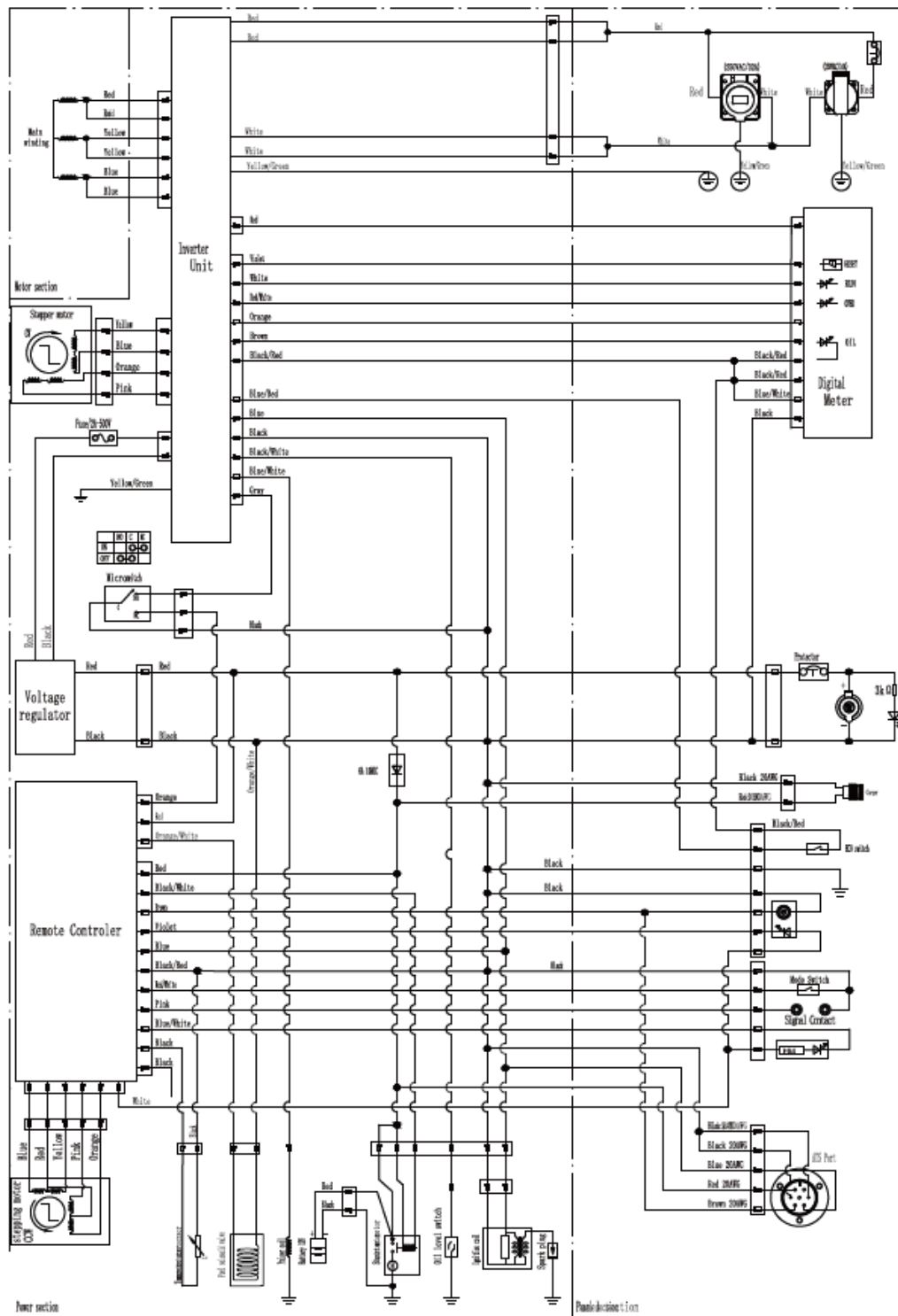
11. Diagram

12.1 Pmi4500



Note: This wiring diagram is for reference only due to the difference in condition of the generator set.

12.2 Pmi6500



Note: This wiring diagram is for reference only due to the difference in condition of the generator set

Below is a facsimile of the EC declaration.

The original EC declaration is provided with the rest of the documents referred to in point 5.

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PR Industrial S.r.l. - Loc. Il Piano - 63031 Casole d'Elca (SI) - ITALIA[illegible]

Declara sous sa seule responsabilité que la machine
Declares full and sole responsibility that the machine
Erklärt unter ihrer eigenverantwortung, dass die machine
Declars, bajo su sola responsabilidad, que la máquina
Declara absovto a sua somente responsabilidade que a máquina
Verklaart onder eigen verantwoordelijkheid dat de machine
Erklärt als einzig ansvarig, dass die machine

Uunder eget ansvar, at maskinen
Tilfældtager under eget ansvar alt maskinen
Anslået udsættelse om 11 uger
Otteen thyden vistnok lodstaa staa, end laie
Problemet o' p'vezenti p'ind opbeholdet za to, te zaftent
Tuemistab stielikke ja semuinkulst vistnok, masina suites
Deklarer at pilus afstillede, ka zemat mindet iekreta
Vistikke afstillede stielikke, ind semuinkulst

Deklaruję z pełną odpowiedzialnością, że urządzenie
Przyjmam pełną odpowiedzialność, że urządzenie
Przekazuję w pełni swojej kompetencji i odpowiedzialności, że urządzenie
W pełni odpowiedzialności, że urządzenie
Też jest kłopotliwe dla użytkowników, którzy
Deklaruję, że urządzenie jest zgodne z
Podjętym zobowiązaniem do odpowiedzialności, że urządzenie

GENERATING SET

Modello, **Modelo**, **Model**, **Modell**, **Modelo**, **Modelo**, **Model**, **Model**, **Modell**, **Modell**, **Modello**, **Malli**, **Model**, **Model**, **Modelis**, **Modelis**, **Model**, **Monens**, **Model**, **Model**, **Modell**, **Modeld**, **Monen**, **Model**

PM16500



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EVALUATION

Nº Serie, Nº de Série, Serial No, Serien Nr., Nº de Serie, Nº de Série, Seriennummer, Seriennummer, Seriennummer, Seriennummer, Ap. Εξυψς, Serjansnumro, mł bldo, Seeria Nr., Serijas numurs, Serijos Nr., Numer serijny, Serijainnõ numer, Sériové číslo, Serijaka št., Sorozatszám, Nº de série, Serpeni nomer, Serijaki broj

ZS2025B000001

Anno costruzione, Année de construction, Year of construction, Baujahr, Año de construcción, Ano de construçáo, Bouwjaar, Fremstillingsáret, Konstruksjonsár, Tillverkningsår, Erecz kotarzyszczy, Valmistusvuosi, Rok výroby, Ektistassata, Iðláðjama eala, Pásmínningu meti, Rok produkcijski, Goda smygens, Rok výroby, Leto moirivodnje, A vjetsto éve, An de constructie, Gouasa sa strokovarstvo, Godina gradnje

A la quale se refere esta Declaración es conforme a las Directivas
 To which this Declaration refers is in conformity with the Directives
 Auf der sich diese Erklärung bezieht, entspricht die Richtlinien
 A la cual esta Declaración está conforme a las Directivas
 Al qual esta declaració se refere e conforme a les Directives
 Waar deze Verklaring betrekking op heeft, overeenkomstig de Richtlijnen
 Hovril dena denna Erklaring hänvisar, er i överensstämmelse till Direktivet
 Som denna Erklaring gjeldr er i överensstemmelse med Direktivene
 Till vilken denna Förklaring hänvisar sig överensstämmer Direktivet
 Empe omnia et singula in supradicta Declaratione sunt expressè meque Obsequio
 Jolle tilstedes at denne erklæring, skjønt den henviser til

Ke kterému se toto prohlášení vztahuje je v souladu s Direktivou
Vstah EÚ Direktívy
Je součástí ařístotolu Direktívy
Kuriam takto a Deklaracia, atímka Direktívy
regu Odnosí se k nájizma deklaracia spenia wymogi zawarte w Dy
Ustnowie tydz i dotyczy nastepujacych osobnosciow: Deklaracia
Na ktorej sa vztahuje toto prohlásenie apla ustanovenia Smernice
Ustawa Senatu
Amelych z a z tylosciakoz vnoskíoz, męgieloz
La care se refera prezenta declaratie este conform Directivei
Deklaracia ma caracterul unei angajari, care este valabila
Na ktorej sa odnosi oboz izajwa, izawoz prezna Smernicami

[illegible][illegible][illegible]

II. Responsible. Le Responsable, Authorized by, Der Verantwortliche, El Responsable, O Responsável, De Verantwoordelijke, Den Ansvarlige, Ansvarlig Person, Ansvarig, O Yastoh'ovog, Vastava isilinen edustaja
Opravitel', Volitstadi, Pilmarovs, Sanikionavo, Potwierdzone przez, Pripomenenaušt oprau, Schwäli, Poobliiden od, Engedelvert, Responsabilul, Otrosoep, Odgovorna osoba

PAOLO CAMPINOTTI

Firma, Signature, Signed, Unterschrift, Firma, Assinatura, Handtekening, Underskrift
Underskrift, Underskrift, Υπογραφή, Alieksirjoitus, Podpis, Alla kirjutatud,
Perakata Pasiride Podris Duanica, Podris Podris Aldris, Sematutur Duanica, Podris

Perle lampen

CASOLE D'ELSA