INVERTER GENERATOR USER'S MANUAL

TRI-FUEL

Bluetooth®

GM9000iET

TRI-FUEL INVERTER GENERATOR

	STARTING WATTS	RUNNING WATTS
Gasoline	9000	8000
LPG	8000	7000
Natural Gas	7000	6500

WARNING: SAVE THIS MANUAL FOR FUTURE REFERENCE

This manual contains important information regarding safety. Operation, maintenance and storage of this product. Before use, read carefully and understand all cautions, warnings, instructions and product labels. Failure to do so could result in serious personal injury and/or property damage.

California
Proposition 65 Warning
The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

California
Proposition 65 Warning
Certain components in this product and its related accessories contain chemicals known to the state of California to cause cancer, birth defects or other reproductive harm. Wash hands after handling.

DISCLAIMERS:
All information, illustrations and specifications in this manual are based on the latest information available at the time of publishing. The illustrations used in this manual are intended as representative reference views only. Moreover, because of our continuous product improvement policy, we may modify information, illustrations and/or specifications to explain and/or exemplify a product, service or maintenance improvement. We reserve the right to make any change at any time without notice. Some images may vary depending upon which model is shown.

⚠ DANGER

This manual contains important instructions for operating this inverter generator. For your safety and the safety of others, be sure to read this manual thoroughly before operating the generator. Failure to properly follow all instructions and precautions can cause you and others to be seriously hurt or killed.

UNPACKING

⚠ CAUTION

Always have assistance when lifting the generator. The generator is heavy; lifting it could cause bodily harm.

Avoid cutting on or near staples to prevent personal injury.

Tools required - box cutter or similar device.

1. Carefully cut the packing tape on top of the carton.
2. Remove socket wrench, and oil funnel and save for later.
3. Carefully cut two sides of the carton to remove the generator.

WHAT COMES IN THE BOX

Spark Plug Socket Wrench (1)
Dual-Purpose Screwdriver (1)
Owner Manual (1)
Warranty Information (1)
Funnel (1)
Remote Control Key (1)

DESCRIPTION OF FITTINGS

Spark Plug Socket Wrench

Used in spark plug maintenance, inspection, and installation.

Dual-Purpose Screwdriver

Phillips and slot blade screwdriver used for generator maintenance.

Funnel

It's used to oil the generator.

Remote Control Key

Used to remotely start / stop the generator and ECO-ON/OFF.

Note: Actual tools may differ in appearance or design from image shown.

WARRANTY CARD

PERSONAL INFORMATION

Name: _____

Street Address: _____

City, State, ZIP:_____

Country: _____

Phone Number: _____

E-Mail: _____

INVERTER INFORMATION

Model Number: _____

Serial Number:_____

Date Purchased: _____

Purchased From:_____

TABLE OF CONTENTS

SAFETY WARNING

Personal and property safeties of you and others are very vital. Please read the Safety Warning in the User's Manual and the decals of the generator set carefully.The Safety Warning can alert you to those potential hazards that could harm you and others. In front of each Safety Warning, there is one of four words "**DANGER**" "**WARNING**", "**ATTENTION**", and "CAREFUL". Details are as follows:

DANGER

Failure to follow the instruction will result in being in peril of your life or extremely serious injury.

WARNING

Failure to follow the instruction will result in being in peril of your life or very serious injury.

CAREFUL

Failure to follow the instruction will result in minor injury.

ATTENTION

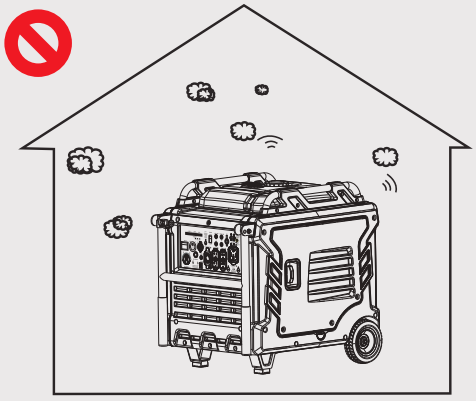
Failure to follow the instruction will result in the damage to your generator set and other properties.

CO TECHNICAL WARNING

CO DETECT technology monitors the accumulation of carbon monoxide (CO), a poisonous gas produced by engine exhaust when the generator is running. If CO Sensor detects unsafe elevated levels of CO gas, it automatically shuts off the engine. CO Sensor is not a substitute for an indoor carbon monoxide alarm or for safe operation. DO NOT allow engine exhaust fumes to enter a confined area through windows, doors, vents or other openings. Generators must ALWAYS be used outdoors, far away from occupied buildings with engine exhaust pointed away from people and buildings. Meets the requirements of ANSI/PGMA G300-2018.

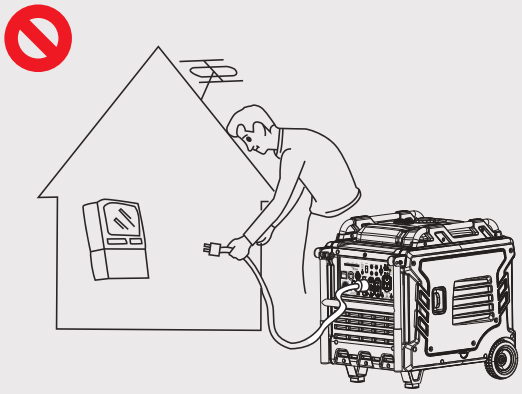
SAFETY INSTRUCTIONS

Before operating the generator, it will help you avoid accidents to read and understand the Manual and familiarize yourself with the safe operation procedures of the generator.

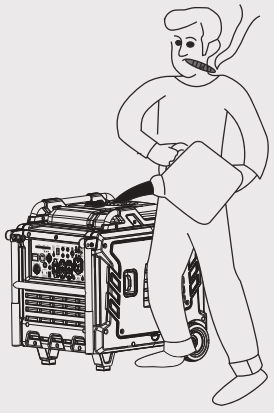


Please do not use indoors

Please do not use in humid environment



Do not directly connect to the household power supply system



Please do not smoke when refueling

Please do not spill when refueling

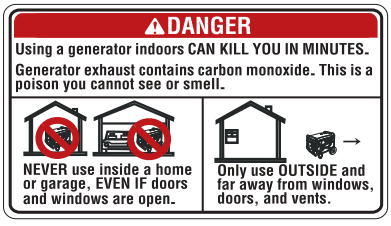
Please shut down the generator before refueling

SAFETY LABELS AND DECALS

1

2

3



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GM9000iET	TRI-FUEL Inverter Generator		
AC Voltage:	120/240V	Phase:	Single
Current:	33.3A - GAS	RPM:	4200
	29.2A - LPG	Power Factor:	1.0
	27.1A - NG	Insulation Class:	F
Frequency:	60Hz	Rated Amb. Temp.:	77°F/25°C
Rated Power:	8.0kW - GAS	GENMAX®	
	7.0kW - LPG		
	6.5kW - NG		
DC Output:	12V 8.3A		

CHONGQING DINKING POWER MACHINERY CO.,LTD.

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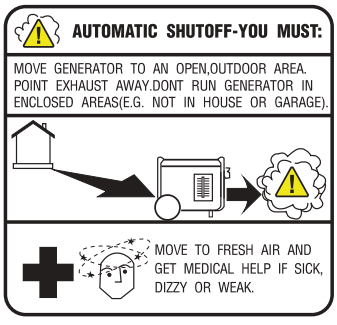


NAMES OF COMPONENTS

① **Fuel Tank Cap:** Open the fuel tank cap and fill with proper amount of gasoline.

② **Recoil Handle:** Pull to start the engine.

③ **Fuel Tank:** Store the added gasoline.

④ **Left Outer Cover:** Unscrew the bolt, remove the outer cover, connect the battery wire, maintain the air filter and replace the spark plug.

⑤ **Control Panel:** Contains the reset breaker, outlets and warning lights.

⑥ **Engine Cooling Vents:** Helps move airflow in unit to regulate engine temperatures.

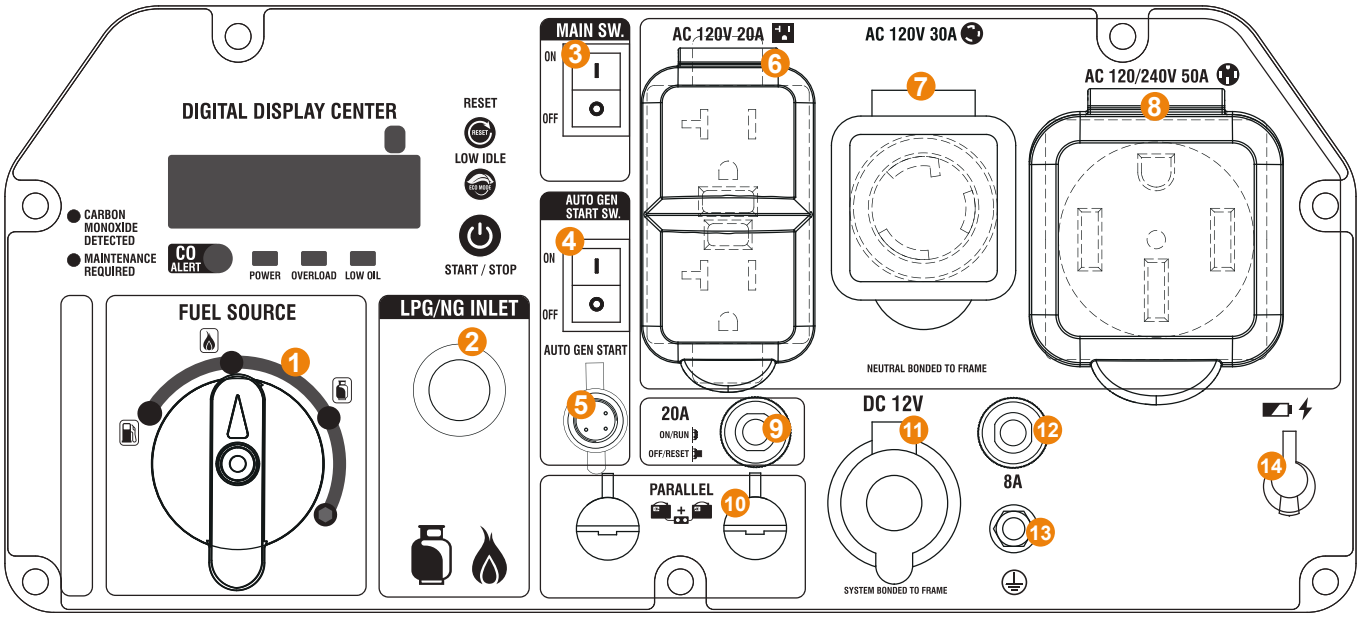
⑦ **Right Outer Cover:** Unscrew the bolts, remove the outer cover, and add or change the oil.

⑧ **Muffler:** Avoid contact until the engine is cooled down. The spark arrestor prevents sparks from exiting the muffler. It must be removed for servicing.

⑨ **Wheel**

⑩ **Handrail**

CONTROL FUNCTIONS



CONTROL PANEL FEATURES

① **Fuel Source Switch:** Choice of fuel source.

② **LPG/NG Inlet:** Connect LPG (propane) or NG (methane) as fuel.

③ **Main Switch:** Manage battery power and shutdown.

Tip: If you do not use the generator for more than 7 days (168 hours), please press the main switch to the "OFF" position, which can prevent the battery from running out.

④ **AUTO GEN START SW.:** Connect the automatic start/stop device to the communication interface ⑤ through the automatic start/stop connection line, and press this switch to the ON position. The generator will be controlled by an external device with automatic start/stop function. After this function is enabled, the push start button and remote start start/stop button and remote start are disabled.

⑤ **AUTO GEN START:** The communication interface for automatically starting and stopping the generator. Used to connect equipment with automatic start stop function.

⑥ **120V AC 20A 5-20R Outlet:** The outlet is capable of carrying a maximum of 20 amps.

⑦ **120V AC 30A L5-30R Outlet:** The outlet is capable of carrying a maximum of 30 amps.

⑧ **120/240V AC 50A 14-50R Outlet:** Receptacle can supply a maximum of 50 Amps.

⑨ **AC Breaker:** If the inverter is overloaded, the reset breaker will trip to block current.

⑩ **Parallel Connectors:** To increase AC power output, the connector sockets are used to connect the two same type generator with special paralleling cords. The connector sockets is only used to the communication between the inverters, they can not used for AC power output. The special paralleling cords shall be purchase separately, and they shall be approved by certification body.

⑪ **DC Cigarette Lighter Outlet:** 12V DC 8.3A.

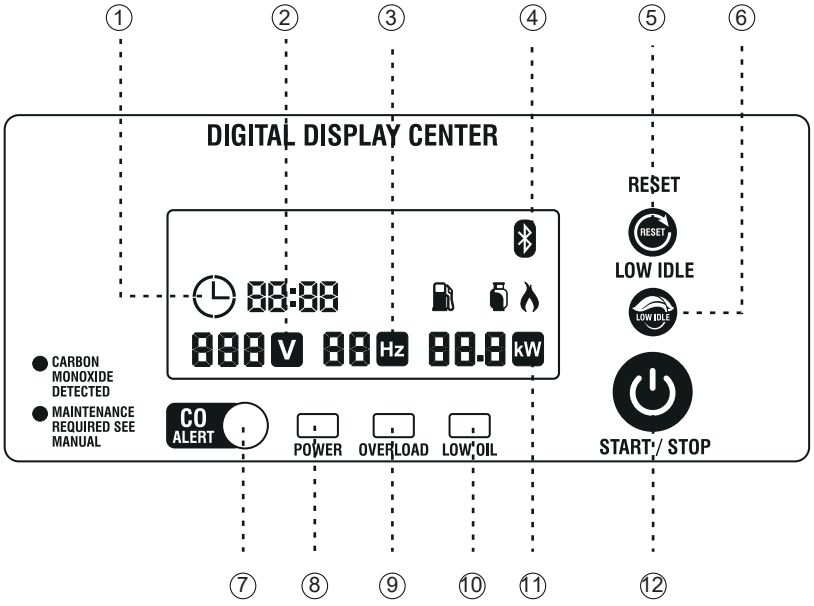
⑫ **DC Protector:** If the generator is overload, the DC protector will trip to block current.

⑬ **Ground Terminal:** The ground terminal is used to externally ground the generator

⑭ **Battery Charging Port:** Charge the generator battery .

CONTROL FUNCTIONS

DIGITAL DISPLAY CENTER



① **Hours:** Represents the total time the generator has been operational.

② **Volts:** Voltage display.

③ **Hz:** Frequency display.

④ **Bluetooth Indicator Light:** Blue light means bluetooth is connected.

⑤ **Reset Switch:**If the inverter is overloaded, the breaker will trip.Unplug the devices and reduce the load. Push button to reset the circuit.

⑥ **Low Idle Switch:** Press the button to turn green and enter low idle mode, where the engine will sense the required load and run at a slower RPM to save fuel.

⑦ **CO Alarm:** Flashing red light: dangerous levels of carbon monoxide gas have built up leave immediately until area has aired out. Move generator to well-ventilated area before operation.Flashing yellow light: carbon monoxide sensor malfunction.Sensor needs service.

⑧ **Power:** Green light means normal operation.

⑨ **Overload:** Red light means the machine overload.

⑩ **Low Oil:** Red light means the amount of oil is too low.

⑪ **WATTS:** Actual numerical power display.

⑫ **Start/Stop Button:** Press this button, the engine can start and stop.

PREPARATIONS

1 Fuel

DANGER

- **Fuel is flammable and toxic, please read the Safety Instruction carefully before refueling;**
- **Do not fuel too full, otherwise fuel will spill after fuel tank is warmed;**
- **After refueling, confirm that the fuel tank cap has been tightened.**

ATTENTION

- **After refueling, dry gasoline residue with a clean and soft cloth in time to avoid damaging plastic enclosure;**
- **Unleaded gasoline must be used, as leaded gasoline can seriously damage internal parts of the generator;**

Remove fuel tank cap, and add gasoline to red horizontal indicating line oil level.
Fuel tank capacity: 6.9gal (26L)

2 Oil

No oil is filled into this generator when being delivered. Do not start up the generator without filling sufficient oil.

1. Please place the generator onto a horizontal plane surface;

2. Open the right exterior cover, unscrew oil dipstick;

3. Fill in 0.26 gal(1L) oil (SAE 10W/30 oil is recommended, of which the grade is API standard Type SE or higher);

4. Cover the right panel.

3 *Pre-use Inspection*

WARNING

Even if the generator is not in service, its important component may suddenly fails. Before the generator is started up, if any of following components is unable to work properly, please inspect and repair carefully.

Tip: The condition of the generator shall be inspected before using every time.

Pre-operation inspection

Project	Possible Causes	Probable Solutions
Fuel	Check fuel level in fuel tank of the generator.	Add fuel if necessary.
Oil	Check oil level of the generator.	Add oil if necessary.
	Check whether there is oil leaking.	
Abnormal conditions during operation	Check operating condition of the generator.	If there is any need, please do not hesitate to consult your dealer.
Battery	Check whether the battery is full.	See the “Battery Charging” page.

CONNECTING AN LPG TANK

ATTENTION

- Confirm that the re-qualification date on the tank has not expired.
- All new propane tanks must be purged of air and moisture prior to filling. Used propane tanks that have not been plugged or kept closed must also be purged. The purging process should be done by a propane tank supplier (propane tanks from an exchange supplier should have been purged and filled properly).
- ALWAYS position the propane tank so the connection between the valve and the gas inlet will not cause sharp bends or kinks in the hose.

⚠ DANGER

Explosion hazard. DO NOT start generator if you smell propane. ALWAYS fully close the propane tank valve and disconnect the LPG hose from the generator when not in use.

1. **Turn the generator OFF and place on a flat surface in a well ventilated area.**
2. **Verify that the LPG tank valve is in the fully closed position.**
3. **Remove the cover on the generator propane inlet.**

4. Tighten the LPG hose to the LPG/NG inlet of the generator.

IMPORTANT: *DO NOT use thread seal tape or any other type of sealant to seal the LPG hose connection.*

Tighten the LPG hose to the generator intake.

(* LPG HOSE SOLD SEPARATELY)

5. Remove the safety plug or cap from the LPG tank valve and attach the other end of the hose to the LPG connector on the tank. Hand-tighten.

6. Turn the LPG tank valve to the fully open position.

Check all connections for leaks by wetting the fittings with a solution of soap and water. Bubbles which appear or bubbles which grow indicate that a leak exists. If a leak exists at a fitting, turn the LPG tank valve to the fully closed position and tighten the fitting. Open the LPG tank valve and recheck the fitting with the soap and water solution.

CONNECT THE NATURAL GAS (NG) SUPPLY LINE

⚠ DANGER

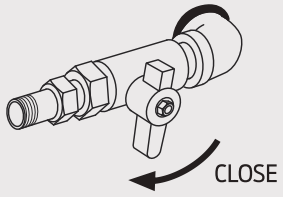
Fire and explosion hazard. Never connect or disconnect the natural gas hose while the engine is running. Do not smoke or create sparks while handling natural gas. Always turn the engine off and allow the generator to cool for at least five minutes before connecting to natural gas.

⚠ WARNING

- Never use a natural gas supply line, natural gas hose, or any other fuel item that appears to be damaged.
- To reduce the risk of injury, perform a leak test any time the natural gas hose is disconnected and reconnected.
- Explosion hazard. If you smell methane, do not start the generator. Always completely close natural gas supply line valve and disconnect natural gas (NG) hose from generator when not in use.

1. Turn the generator off and allow the engine to cool for at least five minutes.

2. Verify that the gas is turned off at the natural gas supply line.



3. Screw the Natural Gas Adapter onto the natural gas supply line.

Contact your local gas company for guidance on accessory connection to a natural gas line. You qualified contractor must minimally ensure the pipe supply line threads are clean and in good condition. Pipe connections must be made using a gas rated 'dope' or PTFE tape.

4. Connect the natural gas hose to the natural gas supply line.

Pull the quick connect collet rearward, insert the natural gas hose nipple, then release the collet; ensure a solid connection is made.

5. Tighten the other end of the natural gas hose to the LPG/NG inlet of the generator.

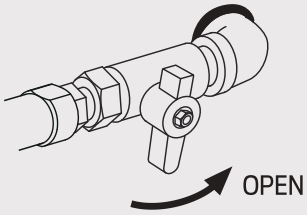
Connect the adapter on the LPG/NG inlet.

Push back the quick connector collet of the natural gas hose, insert it into the generator LPG/NG inlet, loosen the quick connector sleeve, and make the sleeve clamp the propane/methane inlet.

IMPORTANT: *DO NOT use thread seal tape or any other type of sealant to seal the natural gas hose connection.*

6. Turn the natural gas (NG) supply line valve to the fully open position.

Check all connections for leaks by wetting the fittings with a solution of soap and water. Bubbles which appear or bubbles which grow indicate that a leak exists. If a leak exists at a fitting, turn the natural gas (NG) supply line valve to the fully closed position and tighten the fitting. Open the natural gas (NG) supply line valve and recheck the fitting with the soap and water solution.



(* NG HOSE COMPONENTS SOLD SEPARATELY)

CONNECTING THE BATTERY

1. On the right side of the generator, loosen the screws and remove the cover.

NOTE: There is a cable on the left and right side covers that supplies power to the fan. Do not remove the side covers forcibly. Disconnect cables during maintenance.

2. Connect the positive and negative electrodes of the battery.

A quick-connect battery plug is pre-installed on the battery. Remove the cable tie securing the plugs, align colors, then push firmly to connect them.

Note: The generator is equipped with a battery charging feature. Once the engine is running, a small current will slowly recharge the battery.

OPERATION

GENERATOR LOCATION

⚠ WARNING

- **NEVER** operate the generator inside any building, garage, basement, crawlspace, shed, or enclosure, including the generator compartment of a recreational vehicle.
- **NEVER** operate or start the generator in the back of an SUV, camper, trailer, truck bed (regular sides, flat or other configuration), under staircases, stairwells, next to walls or buildings, or any other location that could limit airflow or trap exhaust.
- **DO NOT** operate or store the generator in wet weather conditions such as rain or snow. Using a generator in wet conditions could result in serious injury or death due to electrocution.
- Generators must have a minimum of 5 feet (1.5 m) of clearance from all combustible material.
- Generators must also have a minimum of 5 feet (1.5 m) of airflow clearance on all sides to allow for adequate cooling, maintenance, and service.
- Always place the generator in a well-ventilated area. NEVER place the generator near air intake vents or where exhaust fumes could be drawn into occupied or confined spaces.
- Always carefully consider wind and air currents when positioning the generator.
- Always allow generators to properly cool before transport or for storage purposes.
- Failure to follow proper safety precautions may result in personal injury, damage to the generator, and void your warranty.

⚠ WARNING

During operation, the muffler and exhaust fumes will become hot. If there is inadequate cooling space or if the generator is blocked or enclosed, temperatures can rise quickly and may lead to a fire.

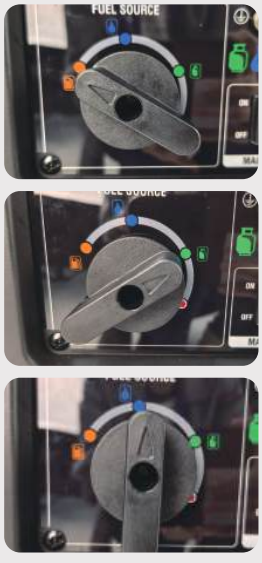
STARTING THE GENERATOR

1. **Make sure the generator is on a solid, flat, level surface.**
2. **Disconnect all electrical loads from the generator. Never start or stop the generator with electrical devices plugged in or turned on.**

3. **Turn the Fuel Switch to desired fuel source.**
   To switch to gasoline
   - Add gasoline.
   - Turn off the flow of natural or propane gas.
   - Turn the Fuel Source Switch to the Gasoline position.

   To switch to propane
   - Open the cylinder valve on the LPG cylinder to start the flow of propane.
   - Turn off the flow of natural gas and gasoline.
   - Turn the Fuel Source Switch to the Propane(LPG) position.

   To switch to natural gas
   - Open the valve on the natural gas supply line to start the flow of natural gas.
   - Turn off the flow of propane and gasoline.
   - Turn the Fuel Source Switch to the Natural Gas(NG) position.



OPERATION

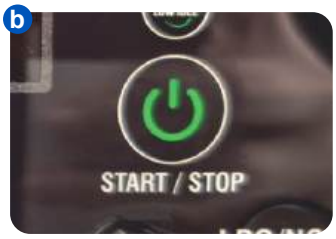
4. Check whether the AUTO GEN START Switch is in the “OFF” position.
If this switch is in the ON position, the start button and remote start/stop button will be disabled.

5. Press the Main Switch to "ON".

6. Choose the Starting Method

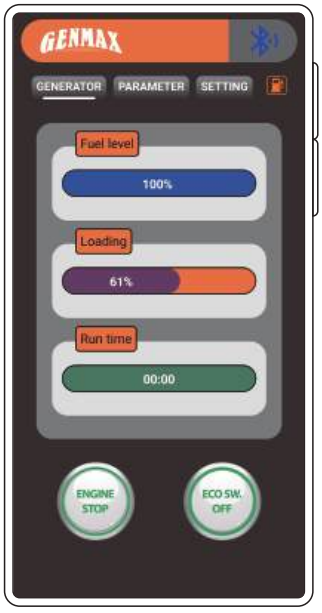
a. Recoil Start
First gently pull startup handle, until guy cable is hooked tight, and then pull it with effort.

b. Push Button Start
Press the start button for 1-3 seconds, then release, to start the generator.



c. Remote Start
Push and hold the ON button on the remote start key fob for one second.

d. Bluetooth Start
Press the start button on the App to start the generator.



NOTE: If the generator is not successfully started using buttons/electric start and remote start, the battery of the generator may need to be charged. Use recoil to start the generator. The battery of the generator will be charged during the operation of the unit. Or use a power adapter to connect to the battery charging port on the panel to charge the battery.

7. Press the “Low Idle” button to turn off the low idle mode, and the green light will turn off.

or Push and hold the ECO OFF button on the remote start key fob for one second.

8. After 1-2 minutes of normal operation of the generator, connect the required equipment.

9. Press the low idle button to enter the low idle mode, and the green light will be on.

NOTE: Determine whether to turn on the low idle mode based on the load situation. If the load exceeds 50%, it is recommended to turn off the low idle mode.

or Push and hold the ECO ON button on the remote start key fob for one second.

COMMON PROBLEMS WITH STARTING THE GENERATOR:

Start the generator to run normally without output ?

1. Check whether the green light of the GFCI socket is on.

If the green light is not on, press the RESET button after the generator is started to make the green light on.

Tip: When the generator is not started, the GFCI socket is in the protected state and the "RESET" button cannot be pressed.

LPG/NG start up is difficult ?

When both gasoline and LPG/NG are present in the generator it is recommended to start the generator on gasoline first, allow the engine to stabilize then switch to LPG(or NG).

1. Ensure the LPG (or NG) supply hose is securely attached and Close the LPG (or NG) valve completely.

2. Fuel source rocker switch to “GASOLINE”.

3. Follow the startup steps to start the generator.

4. Open the LPG (or NG) valve completely.

5. Fuel source switch to “LPG (or NG)”.

Electric start and remote start no response ?

1. Check whether the positive and negative electrodes of the battery are correctly connected.
2. Check whether the battery is charged.
3. Check whether the remote control is powered on.

Remote Control Pairing

1. Press and hold the start/stop button for more than 5 seconds until the red indicator light on the button starts to flash. (Tip: If there is no operation within 5 seconds, the pairing mode will exit.)
2. Press any button on the remote control.
3. The red indicator light of the start button goes out, indicating that the remote start pairing has been successfully completed.

Tip: The remote control delivered with the generator has been paired successfully.

TIP

Remote Control Key Dormancy
When generator stops running for 5 days (120hours), while the main switch is not turned off, the remote control key cannot be used to start the generator again. At this time, you need to turn off the main switch and turn it on again, or press the one-key start button (or hand start) to start the generator, and the remote control key will be reactivated.

Parallel Operation

The parallel connection ports allow you to connect two generators to increase the total available electrical power. Follow the instructions included with your parallel connection kit for proper installation and operation.

Overload Indicator

Note: The OVERLOAD light may turn on for a few seconds as a large device starts. This is normal for loads approaching the capacity of this generator.

1.The total combined load through the outlets on the generator must not exceed the running power of the unit.

2. If the OVERLOAD light turns on and the generator stops producing power, it has been overloaded.

3. Turn off and disconnect all electrical devices and stop the engine. Compare device requirements to generator rating and reduce the total wattage of connected devices if necessary. Move anything that may be limiting generator ventilation away.

4. Check if any circuit breakers have tripped and make sure that ALL circuit breakers are reset before starting the generator again.

5. Restart the engine and reconnect devices while being careful to not overload the generator.

Low Oil Indicator

1. If the engine oil level is too low, the LOW OIL light turns on and the engine will automatically shut off.

2. The engine cannot be restarted until the proper amount of oil has been added. Add the appropriate type of oil until the oil level is at the proper level. SAE 10w-30 oil is recommended for general use.

ATTENTION

Do not run the engine with too little oil. Engine will shut off if engine oil level is too low.

Low Idle

1. Turn on a low idle mode to limit noise and fuel consumption with a light generator load.
2. Turn off the low idle mode to run the engine at full speed under the following conditions:

- Starting the generator.
- If the load exceeds 50%, it is recommended to turn off the low idle mode.

SHUTTING DOWN THE GENERATOR

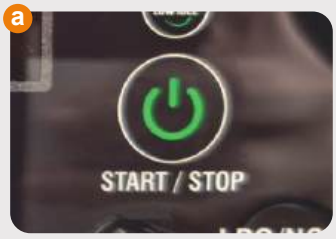
1. Turn off and unplug all connected electrical loads. Never start or stop the generator with electrical devices plugged in or turned on.

2. Select the Stopping Mode

a. Button Stop

Press the button to turn off the generator.

a



b. Remote Stop

Press the "OFF" button on the remote control for 1-3 seconds.

b

c. Bluetooth Stop

Press the stop button on the App to stop the generator

C

If not used for a long time, please perform the following operations

3. Press the Main Switch to "OFF".

Tip: If you do not use the generator for more than 7 days (168 hours), please press the main switch to the "OFF" position, which can prevent the battery from running out.

4. Turn the Fuel Source Switch to the "OFF" position.

5. Stop the flow of fuel.

- For propane, close the cylinder valve on the LPG cylinder.
- For natural gas, close the valve on the natural gas supply line.
- For gasoline, turn off the fuel switch.

6. After the generator has completely cooled down, remove propane(or methane) hose if applicable and store the generator in a cool, dry, sheltered storage area.

7. Remove or consume all untreated gasoline if you plan to store the generator longer than 3 months.

BLUETOOTH FUNCTION

The generator is connected to the smartphone via Bluetooth.

Suggestion: In an unobstructed environment, the connection distance between the generator and the smartphone should not exceed 80 feet.

ATTENTION

To check the real voltage of the battery, it needs to be checked when the battery is not in the charging state (five minutes after the generator is turned off or five minutes after the external charger is unplugged).

ATTENTION

The maximum distance between your smartphone with Bluetooth function enabled and the generator can be achieved when there is a clear, unobstructed, and line-of-sight connection. The connection distance can also be affected by factors such as the type of smartphone used, the surrounding environment, building structure, and electronic interference.

PAIRING App

NOTE: First time only, Bluetooth pairing required.

Before Pairing App

1. Make sure the generator is filled with the right amount of oil, gasoline/LPG;
2. Make sure the battery power is sufficient;
3. Open the main switch on the generator panel before using App.

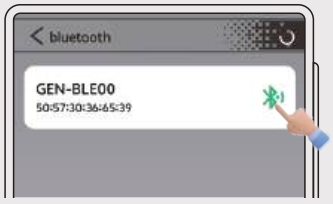
OPERATION

1. Scan the QR code to download the application.

iOS Android

2. Enable the Bluetooth function on your smartphone.

3. After entering the interface, click the device to establish a connection via Bluetooth.



4. On this page, you can start/stop the generator and turn on/off the energy-saving mode.

SERVICE ENVIRONMENT OF THE GENERATOR

• Applicable temperature: 23℉~ 104℉(-5℃~40℃);
• Applicable humidity: below 95%;
• Applicable altitude: regions below 1,500 m (It shall be used by reducing power in regions above 1,000 m).

Standard atmospheric condition

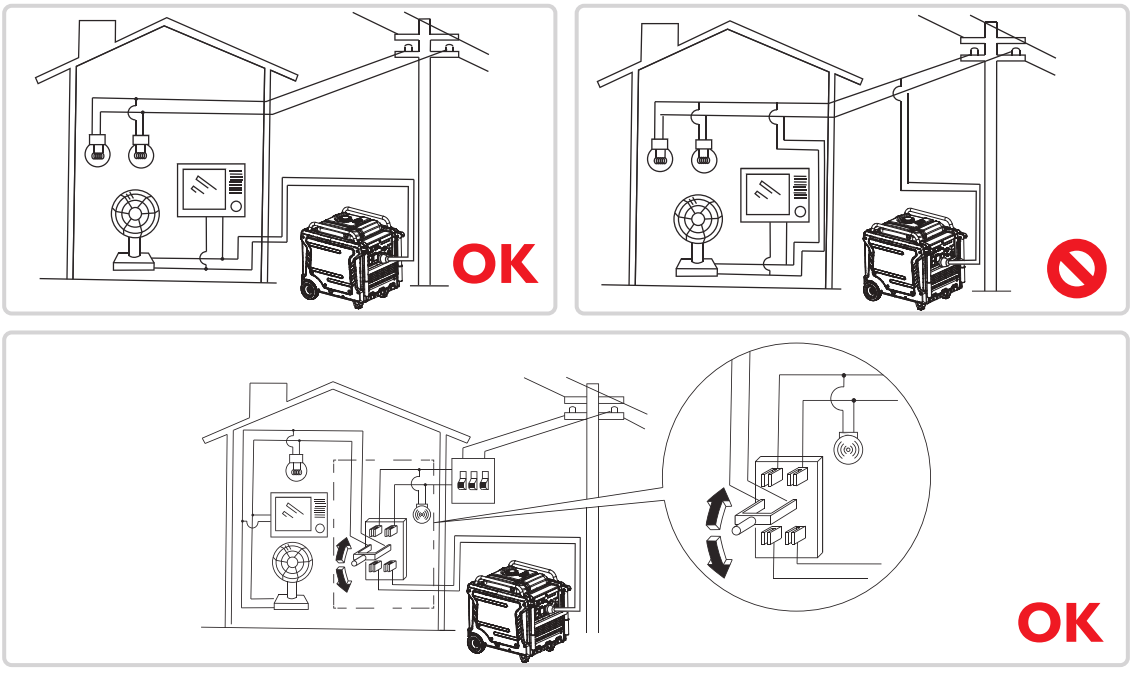
• Ambient temperature Tr: 298k (77℉/25°C)
• Relative air humidity Φr: 30%
• Absolute atmospheric pressure Pr: 100kPa

When actual environmental condition is inconsistent with the condition of output power of the generator set:

• Every 5°C of increase in ambient temperature will reduce the power of generator by about 2%.
• Every 30% of increase in relative humidity of air will reduce the power of generator by about 1.5%.
• Every 300 m rising of ASL will reduce the power the generator by about 4.5%.

GENERATOR WIRING

• When the generator is connected to household power source as a backup power supply, the connection shall be carried out by a professional electrician or a person familiar with electricity.
• After connecting the load to the generator, check carefully whether electrical connection is safe and reliable. Improper electrical connection may cause generator damage, burning or fire.
• Avoid connecting this generator to commercial power outlet.
• When extending the cable, be sure not to exceed its length.
① 60m cross-section area is 1.5mm²
② 100m cross-section area is 2.5mm²
• The appearance of extension cable shall be protected by a layer of tough and elastic rubber cover (IEC25) or other substitutes.



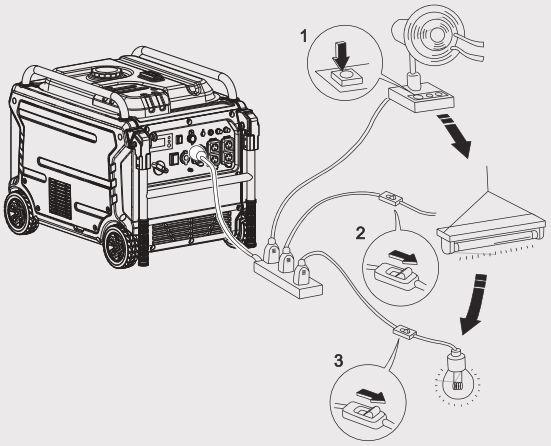
Connection of AC power

WARNING

All electrical equipment shall be disconnected before inserting the plug.

ATTENTION

• Make sure that all electrical equipment, including wires and plugs, are in good condition before connecting to the generator;
• Make sure that all loads driven by the generator are within rated load range;
• Make sure that load current is within rated current range of rated socket.
Tip: Make sure that the generator set is grounded, and if electrical equipment requires grounding, the generator set must be grounded.
① Start up the engine;
② Turn energy-saving switch to "ON";
③ Insert the plug into AC outlet;
④ Make sure that AC indicator is lit up;
⑤ Switch on electrical equipment.
Tip: Before increasing engine speed, energy-saving switch must be switched to "OFF". If the generator set supplies power to multi loads or electrical equipment, start from large to small according to the size of each electrical equipment.



3 *Generator Grounding*

In order to prevent any damage to the generator caused by electric shock or improper electrical application, it is recommended that the generator is grounded with good conductor with insulating sheath.

① Please use grounding wire with sufficient electrical energy capacity;
② Connect one end of grounding wire reliable to grounding bolt on control panel of the generator set;
③ Insert grounding body (iron rod with a diameter of 0.19 ~ 0.39in) 7.9in below into the earth and lead it out with conductor;
④ Connect the other end of the grounding wire reliable to the led wire of grounding body.

4 Battery Charging

The battery storage time is generally about 6 months. If the generator is not used for a long time, the battery will run out of power. At this time, the battery should be charged. Replace the battery if it is damaged or fails to charge.

Hand start charging: Start the generator by hand, and the battery will be charged automatically when the generator runs.

Use an external power source for charging:

Connect the charger to the battery charging port on the generator panel and connect the mains to charge the battery.
(Sell Separately)

5 Changing the Neutral Point

This generator is "neutral bonded" state, if you want to change to a "neutral floating" state, please refer to the website: **https://www.genmaxpower.com/page/faq**

WARNING

In accordance with the provisions of U.S. safety regulations, the neutral conductor of a dual-voltage inverter generator must be in a grounded state.
In principle, it is strictly prohibited to privately modify the state of the neutral conductor grounding bolt. If a user makes unauthorized modifications to it, changing the neutral conductor from a grounded state to a floating state, please note that: when two generators are connected in parallel at 240V voltage, it is strictly forbidden to connect a load to the 120V voltage terminal. Otherwise, it may cause damage to the generator or the load equipment, and the relevant consequences shall be borne by the user.
Please strictly comply with the requirements of this notice to ensure the safe and normal operation of the equipment.

WARNING

Do not start the generator while charging with an external power supply. Keep batteries away from fire sources. Keep the battery in a cool and dry place, away from direct sunlight. Keep batteries away from children.

ATTENTION

1. Charge properly
Keeping battery properly charged and discharged can prolong battery life. Maintaining a power level of 10%-90% in battery is beneficial for battery protection.
2. Choose the appropriate charging temperature
Battery charging temperature range: 32-113℉(0-45℃).
3. Avoid overcharging
Overcharging of battery must be avoided during the charging process. Overcharging of battery in any form will lead to serious damage to battery performance and even explosion.

SERVICE AND MAINTENANCE

Good maintenance and service is the best guarantee for safe, economical and zero-failure operation. It also contributes to environmental protection.
In order to keep the generator in good condition, you must inspect and maintain it regularly. The maintenance schedule is as follows:

Item \ Maintenance cycle		Each	First in 1 month or 20 hours	Then every three months or every 50 hours	100 hours per year or use
Engine oil	Check-fill	√			
	Replace		√	√	
Gearbox gear Oil (if any)	Check oil	√			
	Replace		√	√	
Air cleaner element	Inspection	√			
	Clean		√		
	Replace			√	
Settling cup (if any)	Clean				√
Spark plug	Clean-adjust				√*
Spark eliminator	Clean			√	
Idle speed (if any)**	Check-adjust				√
Valve clearance**	Check-adjust				√
Fuel tank and fuel filter***	Clean				√
Fuel line	Inspection	Every two years (Please replace if necessary)			
Cylinder head, piston	Remove carbon deposit**	Displacement < 225cc, every 125 hours; displacement capacity ≥ 225cc, every 250 hours.			

* These items shall be replaced if necessary;
** These items shall be maintained by the dealer authorized by the Company, unless the user has proper tools and maintenance ability.

ATTENTION

- If it often works under high temperature or high load, oil shall be changed every 25 hours;
- If it often works in dusty or harsh environment, air cleaner element shall be cleaned every 10 hours. If necessary, the air cleaner element shall be replaced every 25 hours;
- It shall be maintained on spot-inspection cycle and time, whichever is earlier;
- If maintenance cycle time has elapsed, perform the maintenance as soon as possible as per the table above.

WARNING

Please shut down the engine first before performing any maintenance. The engine shall be placed in a horizontal position. In order to prevent the engine from starting up, separate spark plug cap shall be separated from spark plug.
Do not use it indoors or use it in a tunnel, cave or other places ventilated poorly. Make sure that work area is well ventilated. Exhaust gas from the engine contains toxic gases, carbon oxides, and the inhalation can cause shock, loss of consciousness, and even death.

1 *Spark Plug Inspection*

Spark plug is an important part of the generator, which must be inspected regularly.

1. Remove the left panel cover, and remove the high voltage pack;

2. Insert the screwdriver into the sleeve, to screw it counterclockwise, and then remove the spark plug;

3. Check whether there is discoloration, and remove carbon deposits.Check whether there is little pale to moderate brown on ceramic cores around center electrode of the spark plug;

4. Check the model of spark plug and clearance.
Spark plug gap: 0.028-0.031in (0.7-0.8mm)
Standard spark:

BRAND	MODEL
NGK	BPR6ES
TORCH	F6RTC

Tip: The spark plug clearance is required to be measured by line thickness gauge, which shall be adjusted if necessary.

5. Install the spark plugs in reverse order of removal.
Spark plug torque: 22.5±2.5N.m(199±22in-lb)

Tip: If there is no torque wrench when installing the spark plug, a better estimation method is to screw it 1/4-1/2 turns by force after screwing it in place, but the spark plug shall be screwed to specified torque as soon as possible.

2 *Adjustment of the Carburetor*

The carburetor is an important components of the engine. The adjustment shall be carried out by a dealer with professional knowledge, professional data and equipment, to ensure that the adjustment is proper.

3 *Replacement of Oil*

WARNING

Do not drain the oil immediately after turning off the generator. Oil temperature is very high, when operating, take care to avoid scalding.

1. Put the generator on a horizontal plane, start the generator, run it for a few minutes to make it warm, then turn off the engine;

2. Open the right exterior cover, find the bolt that put the oil in;

3. 1. Remove the rubber plug;
2. Remove drain oil rubber plug;
3. Use containers to catch waste oil, unscrew the drain oil bolt;
4. Tighten the drain bolt after the waste oil is discharged clean, cover the rubber plug.

4. Unscrew oil dipstick;

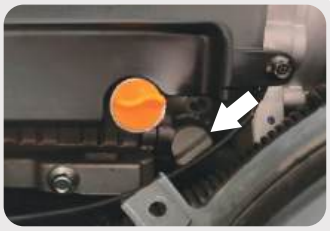
5. Refill oil to a proper level, tighten oil dipstick, cover external cover plate and tighten the knob.

Recommended oil: SAE S10W/30
Oil grade: API standard Model SJ or higher
Volume: 0.3gal(1.1L)

4 *Oil Filter*

It is recommended to clean the oil filter after the first operation of the generator. After that, it will be cleaned every 50 hours.

1. Drain the oil from the engine as in the previous oil drain change procedure, and then remove the oil filter next to it;



2. 1. Clean the impurities inside the filter plug. If the impurities are too much to clean, use detergent to clean;
2. After cleaning, blow dry with compressed air or air dry naturally and put back in the original position.

5 *Air Filter*

Dirty air cleaner may prevent air from flowing into the carburetor. In order to prevent failure of the carburetor, please maintain air cleaner regularly. If being used in a dusty environment, it shall be maintained frequently.

1. Remove screws, to remove cover plate of air cleaner ;

2. Clean foam cleaner element with cleaning solvent and blow it dry, Put a few drops of oil on the filter element.

ATTENTION

Be sure not to twist the foam cleaner element forcibly to avoid damage.

3. Put foam cleaner element into air cleaner;
Tip: Make sure that the surface of foam cleaner element is in close contact with air cleaner, and there shall be no gap leaking air. Be sure not to start the engine before air cleaner is assembled, because it will generate excessive toxic gas and wear the cylinder;

4. 1. Reassemble empty air cleaner cap back to original position, and tighten screws;
2. Assemble left outer cover and tighten bolts.

6 *Fuel Filter Screen*

WARNING

Be sure not to open fuel tank of the generator in a place where smoking or with flame.

1. Remove fuel tank cap and fuel tank filter screen.
2. Clean fuel tank filter screen with gasoline.
3. Wipe filter screen dry, and put it back into fuel tank.
4. Reassemble fuel tank cap.

ATTENTION

Be sure to screw fuel tank cap tight.

STORAGE AND TRANSPORT

1 *Generator Storage*

If it is stored long-term, in order to prevent aging, you shall take some storage measures.

1. Shut down generator.

2. Open fuel tank cap, to take out fuel filter screen. Pump all fuel in fuel tank into special fuel tank, and then reassemble fuel tank cap back.

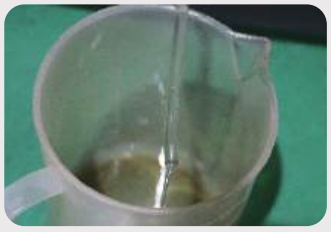
3. Start up the engine to burn off fuel in the carburetor, and then shut it down.

Tip: Do not connect any electrical equipment. Running time of the engine depends on remaining fuel in the fuel tank.

4. Open generator left exterior cover and enter carburetor. Locate the clear plastic hose from the carburetor and place a suitable container under it to capture the drained fuel.

5. Loosen the carburetor drain screws until you see fuel draining from the carburetor.

6. Allow fuel to drain into the container and tighten the drain screws on the carburetor. Install the engine service panel.



7. Unscrew oil dipstick, and drain oil in the crankcase off. Fill new oil to upper oil limit, and then assemble oil dipstick.

8. Gently pull startup handle until you feel resistance, allowing both inlet valve and exhaust valve to be closed.

9. Disconnect the battery cable.

10. Place the generator set in a clean and dry area.

2 *Generator transport*

- When the generator set is transported, it shall be ensured that there is no fuel spilling;
- Do not fill excessive fuel into fuel tank;
- Do not run the generator, and avoid direct sunlight;
- Do not transport the generator set on rough road for long time.

TROUBLESHOOTING

Problem	Possible Causes	Probable Solutions
Engine will not start	FUEL RELATED:	FUEL RELATED:
	1. No fuel in tank or fuel valve closed.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline and open fuel valve. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).**
	2. Choke not in START position, cold engine.	2. Move Choke to START position.
	3. Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.)	3. Clean out ethanol rich gasoline from fuel system. Replace components damaged by ethanol. Use fresh 87+ octane stabilizer-treated unleaded gasoline only. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).**
	4. Low quality or deteriorated, old gasoline.	4. Use fresh 87+ octane stabilizer-treated unleaded gasoline. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).**
	5. Carburetor not primed.	5. Pull on Starter Handle to prime.
	6. Dirty fuel passageways.	6. Clean out passageways using fuel additive. Heavy deposits may require further cleaning.
	7. Carburetor needle stuck. Fuel can be smelled in the air.	7. **Gently** tap side of carburetor float chamber with screwdriver handle.
	8. Too much fuel in chamber. This can be caused by the carburetor needle sticking.	8. Turn Choke to RUN position. Remove spark plug and pull the start handle several times to air out the chamber. Reinstall spark plug and set Choke to START position.
	9. Clogged Fuel Filter.	9. Replace Fuel Filter.
	IGNITION (SPARK) RELATED:	IGNITION (SPARK) RELATED:
	1. Power Switch at OFF position.	1. Turn Power Switch to ON.
	2. Spark plug cap not connected securely.	2. Connect spark plug cap properly.
	3. Spark plug electrode wet or dirty.	3. Clean spark plug.
	4. Incorrect spark plug gap.	4. Correct spark plug gap.
	5. Spark plug cap broken.	5. Replace spark plug cap.
	6. Circuit breaker tripped (electric start models only).	6. Reset circuit breaker. Check wiring and starter motor if breaker continues to trip.
	7. Incorrect spark timing or faulty ignition system.	7. Have qualified technician diagnose/ repair ignition system.
	COMPRESSION RELATED:	COMPRESSION RELATED:
	1. Cylinder not lubricated. Problem after long storage periods.	1. Pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again.
	2. Loose or broken spark plug. (Hissing noise will occur when trying to start.)	2. Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3.
	3. Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.)	3. Tighten head. If that does not remedy problem, replace head gasket.
	4. Engine valves or tappets mis-adjusted or stuck.	4. Have qualified technician adjust/ repair valves and tappets.
	ENGINE OIL RELATED:	ENGINE OIL RELATED:
	1. Low engine oil.	1. Fill engine oil to proper level. Check engine oil before EVERY use.
	2. Engine mounted on slope, triggering low oil shutdown.	2. Operate engine on level surface. Check engine oil level.
	SPARK ARRESTOR RELATED:	SPARK ARRESTOR RELATED:
	1. Spark Arrestor clogged with soot.	1. Clean and replace Spark Arrestor.

Follow all safety precautions whenever diagnosing or servicing the generator or engine.

TROUBLESHOOTING

Problem	Possible Causes	Probable Solutions
Engine misfires	1. Spark plug cap loose. 2. Incorrect spark plug gap or damaged spark plug. 3. Defective spark plug cap. 4. Old or low quality gasoline. 5. Incorrect compression.	1. Check cap and wire connections. 2. Re-gap or replace spark plug. 3. Replace spark plug cap. 4. Use only fresh 87+ octane stabilizer-treated unleaded gasoline. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).** 5. Diagnose and repair compression. (Use **Engine will not start: COMPRESSION RELATED** section.)
Engine stops suddenly	1. Carbon Monoxide level high. Red light on Carbon Monoxide Sensor illuminates. 2. CO Sensor Alarm flashes yellow continually shortly after starting. 3. CO Sensor Alarm flashes yellow continually after longer period of operation. 4. Low oil shutdown. 5. Fuel tank empty or full of impure or low quality gasoline. 6. Defective fuel tank cap creating vacuum, preventing proper fuel flow. 7. Faulty magneto. 8. Disconnected or improperly connected spark plug cap.	1. Leave area immediately and allow area to ventilate thoroughly. Only operate generator outside. 2. Carbon monoxide sensor malfunction. Sensor needs service. Do not use the Generator until the sensor is working properly. 3. Make sure to operate generator within rated ambient temperature; maintain minimum 5 ft. clearance from all sides. 4. Fill engine oil to proper level. Check engine oil before EVERY use. 5. Fill fuel tank with fresh 87+ octane stabilizer treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). 6. Test/replace fuel tank cap. 7. Have qualified technician service magneto. 8. Secure spark plug cap.
Engine stops when under heavy load	1. Dirty air filter 2. Engine running cold.	1. Clean element. 2. Allow engine to warm up prior to operating equipment.
Engine knocks	1. Old or low quality gasoline. 2. Engine overloaded. 3. Incorrect spark timing, deposit buildup, worn engine, or other mechanical problems.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).** 2. Do not exceed equipment's load rating. 3. Have qualified technician diagnose and service engine.
Engine backfires	1. Impure or low quality gasoline. 2. Engine too cold. 3. Intake valve stuck or overheated engine. 4. Incorrect timing.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated unleaded gasoline. **Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).** 2. Use cold weather fuel and oil additives to prevent backfiring. 3. Have qualified technician diagnose and service engine. 4. Check engine timing.
Attached device doesn't have power	1. Device not plugged in properly. 2. Circuit Breaker tripped. 3. Product needs service.	1. Turn off and unplug the device, then plug it back in again and turn on. 2. Turn off and unplug device, reset Circuit Breaker, plug in device and turn on. 3. Have product repaired.
Attached device begins to operate abnormally	1. Problem with device. 2. Rated load capacity exceeded.	1. Immediately unplug device. Have device repaired by a qualified technician, or replace device. 2. Lower the number of items plugged into the generator to stay within the rated capacity, or use a more powerful generator.

Follow all safety precautions whenever diagnosing or servicing the generator or engine.

TECHNICAL PARAMETERS

Item	GM9000iET
Rated Power (kW)	8.0(GAS.)/7.0(LPG)/6.5(NG)
Max. Power (kW)	9.0(GAS.)/8.0(LPG)/7.0(NG)
Engine Model	182F
Valve Clearance	Input valve：0.03~0.10 mm, Output valve：0.03~0.10 mm
Stroke × Bore (mm)	82x66
Engine Type	4-stroke
Displacement (cc)	349
Gas Distribution Mode	OHV
Cooling Mode	Forced cooling wind
Rated Speed (RPM)	4200
Starting Method	Recoil start / Electrical start / Remote start / Smartphone APP Start
Fuel Tank Volume (gal)	4.76(18L)
Fuel Type	GAS/LPG/NG
Lubricating Oil Capacity (gal)	0.3(1.0L)
Lubricating Oil Model	SAE 10W/30
Noise dB (at 7m)(25% load)	62
Rated Voltage (V)	120/240
Rated Frequency (Hz)	60
Rated Power Factor	1
Phase Number	Single phase
Overall Dimension (in.)	28.4×19.6×21.9(722×497×556mm)
Net Weight (lb.)	138.5(62.8kg)

GENMAX®

QUICK REFERENCE WATTAGE

Power Rating	Tool or Appliance	Running Watts	Starting Watts
1200 – 1800 Running Watts	Blender	300	650
	Coffee Maker	1500	
	Drill	600	900
	Fan	200	
	Furnace 1/4 hp	600	1000
	Game console	150	
	Hand sander	600	1200
	Hedge trimmer	450	1200
	Lamp	100	
	Laptop	800	
	LED/LCD TV	150	
	Microwave	1000	
	Modem/router	20	
	Paint sprayer	600	600
	Radio	100	
	Slow cooker	200	200
	String trimmer	350	875
	Sump Pump 1/3 hp	800	1300
	Work light	1000	
2800 – 3800 Running Watts	Belt sander	1200	2400
	Chainsaw	1200	2400
	Circular saw	1200	2000
	Edger	950	2400
	Electric grill	1650	
	Lawn mower	1200	2400
	Pressure washer	1200	2400
	Refrigerator	700	2200
	Washing machine	1150	2250
	Well pump	1000	2100
	Window AC 13k BTU	1800	2800
5500 – 12,000 Running Watts	Air compressor 1 hp	1600	4500
	Central AC 3 ton	5400	7200
	Electric Dryer	5400	6750
	Heat Pump 3 ton	3400	6500
	Water heater	4000	

†Chart for reference only. Check your device for ACTUAL wattage requirements.

HOW TO CALCULATE

Running Watts needed:
Total Running Watts of ALL items to be powered by the generator.

Starting Watts needed:
Add highest SINGLE Starting Watt to Total Running Watts needed above.

EXAMPLE

1 Calculate Running Watts:

Furnace	600
Lamp	100
Microwave	1000
Refrigerator	700
Total Running Watts	**2400**

2 Calculate Starting Watts:

Total Running Wattage	2400
Refrigerator	2200
Total Starting Watts	**4600**

In production management, based on orderly, efficient, scientific principles. trying to do as better as possible in product design, development, production, inspection, etc. to make our production can keep orderly. And will continue to make improvement to make sure that keep the competitiveness.

Welcome friends at home and abroad to visit and guide, work together to create brilliant.

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