

PORTABLE GENERATOR USER'S MANUAL



GM12000ED

Portable Dual Fuel Generator

9000(GAS.)/8000(LPG) Running Watts
12000(GAS.)/9000(LPG) Peak Watts



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.

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 **DANGER**



This manual contains important instructions for operating this 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.

WHAT COMES IN THE BOX

- Spark Plug Socket Wrench (1)
- User Manual (1)
- Warranty Information (1)
- Funnel (1)
- LPG Hose (1)
- 1100ml 10W30 Oil (1)

Tools required - box cutter or similar device.

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

DESCRIPTION OF FITTINGS

Spark Plug Socket Wrench



Used in spark plug maintenance, inspection, and installation.

1100ml 10W30 Oil



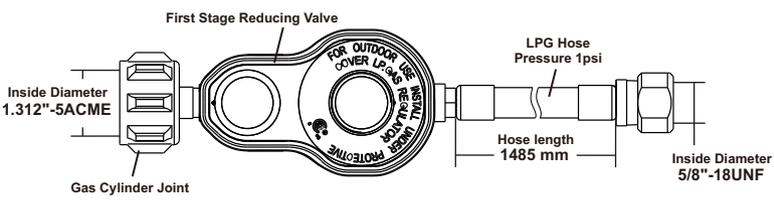
Be sure to add oil before starting the generator.

Funnel



It's used to oil the generator.

LPG Hose



Connect the LPG tank to transmit LPG fuel to the generator.

The diagram shows a cross-section of the LPG hose assembly with the following labels: Gas Cylinder Joint, Inside Diameter 1.312"-5ACME, First Stage Reducing Valve, LPG Hose Pressure 1psi, Hose length 1485 mm, and Inside Diameter 5/8"-18UNF. The valve has a warning label: "FOR OUTDOOR USE COVER LPG GAS VALVE WITH PROTECTIVE CAP".

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

WARRANTY CARD

PERSONAL INFORMATION

INVERTER INFORMATION

Name: _____ Model Number: _____

Street Address: _____ Serial Number: _____

City, State, ZIP: _____ Date Purchased: _____

Country: _____ Purchased From: _____

Phone Number: _____

E-Mail: _____

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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.

NEUTRAL FLOATING

For portable generators where the neutral is floating, the operator's manual shall include the following wording or equivalent:

The portable generator stator winding is isolated from the frame and from the AC receptacle ground pin; and Electrical devices that require a connection between one conductor pin and the grounded receptacle pin may not function properly.

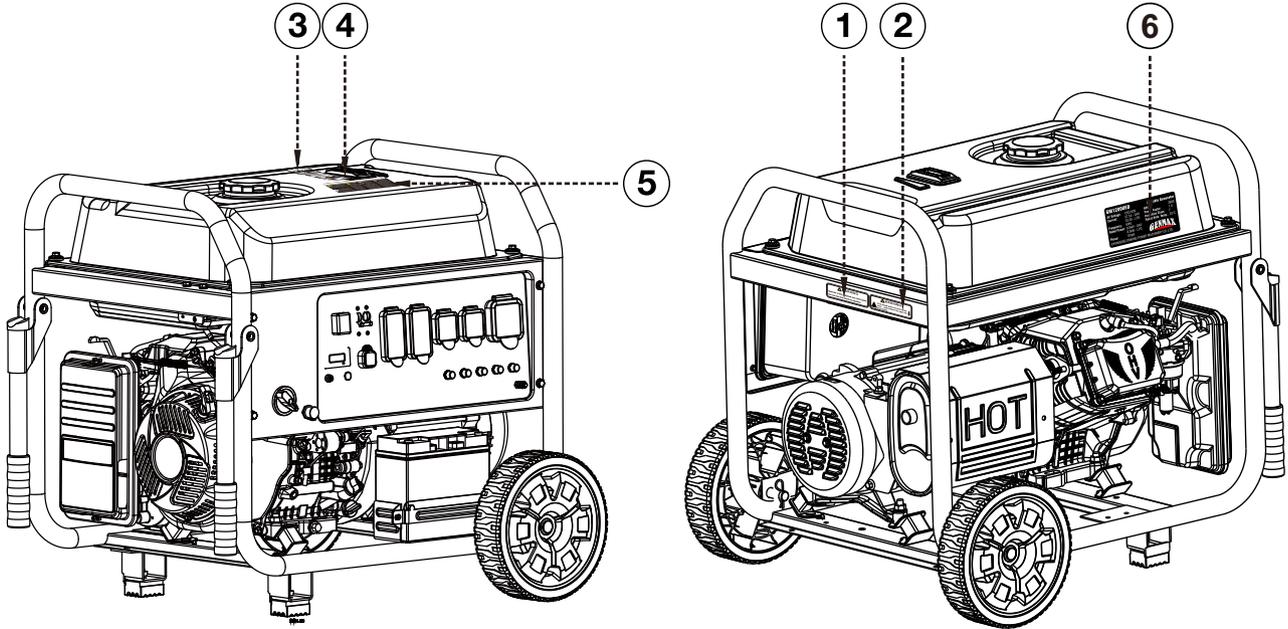
SAFETY INSTRUCTIONS

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.



SAFETY INSTRUCTIONS

SAFETY LABELS AND DECALS



1 **WARNING**
Operation of this equipment may create sparks that can start fires around dry vegetation.

Do not use the generator in a direction that the exhaust emission to the occupied structures, the sparks in the exhaust emission may start fires.

2 **WARNING**
A hot exhaust system can cause serious burns. Avoid contact if the engine has been running.

A hot exhaust system can cause serious burns, avoid contact if the engine has been running.

3 Using a generator indoors CAN KILL YOU IN MINUTES. Generator exhaust contains carbon monoxide. This is a poison you cannot see or smell.

NEVER use inside a home or garage. EVEN IF doors and windows are open. Only use OUTSIDE and far away from windows, doors, and vents.

Do not use the generator in door or garage, the exhaust contains carbon monoxide, this is a poison you cannot see or smell, and it will kill you in minutes.

4 **AUTOMATIC SHUTOFF-YOU MUST:**
MOVE GENERATOR TO AN OPEN, OUTDOOR AREA. POINT EXHAUST AWAY. DONT RUN GENERATOR IN ENCLOSED AREAS (E.G. NOT IN HOUSE OR GARAGE).

+ MOVE TO FRESH AIR AND GET MEDICAL HELP IF SICK, DIZZY OR WEAK.

5

6

GM1200ED	Portable Generator
AC Voltage: 120/240V	RPM: 3600
Current: 37.5A - GAS	Power Factor: 1.0
33.3A - LPG	Insulation Class: F
Frequency: 60Hz	Rated Amb. Temp.: 25°C
Rated Power: 9.0kW - GAS	
8.0kW - LPG	
Phase: Single	GENGEN
CHONGQING DINKING POWER MACHINERY CO., LTD.	

NAMES OF COMPONENTS



- ① **Fuel Tank Cap:** Open the fuel tank cap and fill with proper amount of gasoline.
- ② **Fuel Tank:** Store the added gasoline.
- ③ **Control Panel:** Contains the reset breaker, outlets and warning lights.
- ④ **Magnetic Oil Dipstick:** Absorb iron filings in the engine oil. It is recommended to screw out the oil dipstick every 50 hours to clean it.
- ⑤ **Generator Frame:** Protects the generator for easy movement.
- ⑥ **Wheel:** Easy to move.
- ⑦ **Muffler:** Avoid contact until the engine is cooled down. The spark arrestor prevents sparks from exiting the muffler. It must be removed for servicing.
- ⑧ **Spark Plug**

- ⑨ **Fuel Source Switch:** Choice of fuel source.
- ⑩ **Air Cleaner:** To purify the waste gas.
- ⑪ **Recoil Handle:** Pull to start the engine.
- ⑫ **Battery:** Power is supplied when the generator starts.
- ⑬ **LPG Inlet:** Connects the LPG inlet to the LPG hose/regulator.
- ⑭ **Cylinder Head**
- ⑮ **Handrail**
- ⑯ **Carburetor**
- ⑰ **Spark Plug**

INSTALLATION OF WHEELS AND HANDRAILS

LIST OF PARTS

<p>QTY: 2</p>  <p>Wheel</p>	<p>QTY: 2</p>  <p>Handle</p>	<p>QTY: 2</p>  <p>Support Foot</p>
<p>QTY: 2</p>  <p>Wheel Shaft</p>	<p>QTY: 2</p>  <p>Circular Gasket $\Phi 16.5 \times \Phi 30 \times 2$ (Used of wheels)</p>	<p>QTY: 2</p>  <p>R Pin (Used of wheels)</p>
<p>QTY: 4</p>  <p>Rubber Circular Gasket</p>	<p>QTY: 2</p>  <p>Bolt M8x50 (Used of handle)</p>	<p>QTY: 4</p>  <p>Bolt M8x16 (Used of supporting foot)</p>
<p>QTY: 6</p>  <p>Nut M8</p>		

INSTALLATION OF WHEELS AND HANDRAILS

Install Support Foot

1. Align the two holes on the support seat with the two holes on the bottom of the frame. Place two bolts through the support seat hole and the frame hole;



2. Fasten the nut to the bolt, tighten with a wrench. Install the other side in the same way.



Install the Wheel

1. Put the axle through the wheel and the gasket, connect to the rack;



2. Insert the R pin into the hole in the wheel shaft. Install the other side in the same way.



Install Handrails

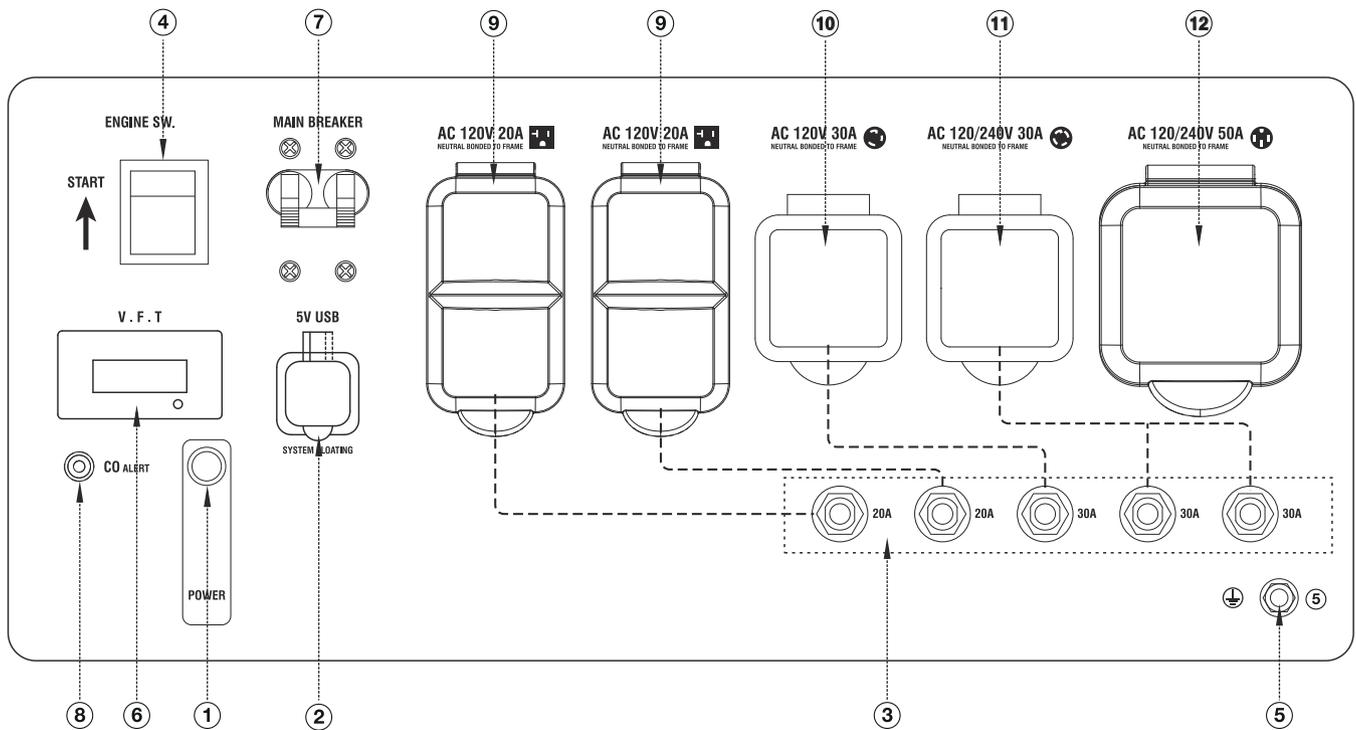
1. Place two gaskets into the holes on the left and right sides of the handle, bolt the handle to the frame;



2. Fasten the nut to the bolt, tighten with a wrench. Install the other side in the same way.



CONTROL FUNCTIONS



CONTROL PANEL FEATURES GM12000ED

- ① **Power Indicator:** Indicates the generator is ready to be used.
- ② **USB Duplex:** 5V DC that come in 1 amps and 2.1 amps.
- ③ **AC Protector:** If the generator is overload, the AC protector will trip to block current.
- ④ **Engine Switch:** Press "START" engine running, switch with rebound function.
- ⑤ **Ground Terminal:** The ground terminal is used to externally ground the generator.
- ⑥ **Three in one Digital Display Table:** Voltage, frequency, time display, press the button to switch.
- ⑦ **Main Breaker:** A circuit breaker interrupts the current when the whole circuit is overloaded.
- ⑧ **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.
- ⑨ **120V AC 20A 5-20R Outlet:** The outlet is capable of carrying a maximum of 20 amps.
- ⑩ **120V AC 30A L5-30R Outlet:** The outlet is capable of carrying a maximum of 30 amps.
- ⑪ **120/240V AC 30A L14-30R Outlet:** The outlet is capable of carrying a maximum of 30 amps.
- ⑫ **120/240V AC 50A 14-50R Outlet:** The outlet is capable of carrying a maximum of 50 amps.

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 the tank cap and add gasoline.
Fuel tank capacity: **10.6 gal (40L)**



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. Unscrew oil dipstick, Fill in 0.3 gal(1.1L) oil (SAE 10W/30 oil is recommended, of which the grade is API standard Type SE or higher);



Don't go over the scale



3. Tighten the oil dipstick.

PREPARATIONS

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.

STARTING UP THE GENERATOR

1. Remove the load from all output ends;

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



3. Select the Fuel:

a. Gasoline: Turn the fuel source switch to gasoline.



b. LPG:

1. Connect the LPG hose to the LPG tank;
2. Tighten the other end of the LPG hose to the generator intake;
3. Turn the fuel source switch to LPG.



5. Turn the choke lever to the "CLOSED" position;

Tip: Don't close the choke when starting the engine in warm state.



6. Select Boot Mode:

a. **Hand Starting:** Pull the starting handle to start the generator.

b. **Electric Start:** Press the engine switch upward to the Start position "Start" for 2-3 s.



7. Turn the choke lever to the "OPEN" position;



STARTING UP THE GENERATOR

8. Plug in after started.



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.



(2) Check whether the main breaker switch is set to “ON”.

If the main breaker switch is set to ON and there is no output, press the heat protection corresponding to the socket and use a multimeter to test whether the socket has voltage.



LPG startup is difficult ?

When both gasoline and propane are present in the generator it is recommended to start the generator on gasoline first, allow the engine to stabilize then switch to propane.

1. Ensure the LPG supply hose is securely attached and Close the LPG valve completely.



2. Fuel source rocker switch to “GASOLINE”.

3. Follow the startup steps to start the generator.



4. Open the LPG valve completely.



5. Fuel source switch to “LPG”.



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.

SHUTTING DOWN THE GENERATOR

1. Unplug the power cord;

2. Turn off gasoline or LPG.



USING THE GENERATOR

1 Service Environment of the Generator

- Applicable temperature: $-5^{\circ}\text{C} \sim 40^{\circ}\text{C}$;
- 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 T_r : 298k (25°C)
- Relative air humidity Φ_r : 30%
- Absolute atmospheric pressure P_r : 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%.

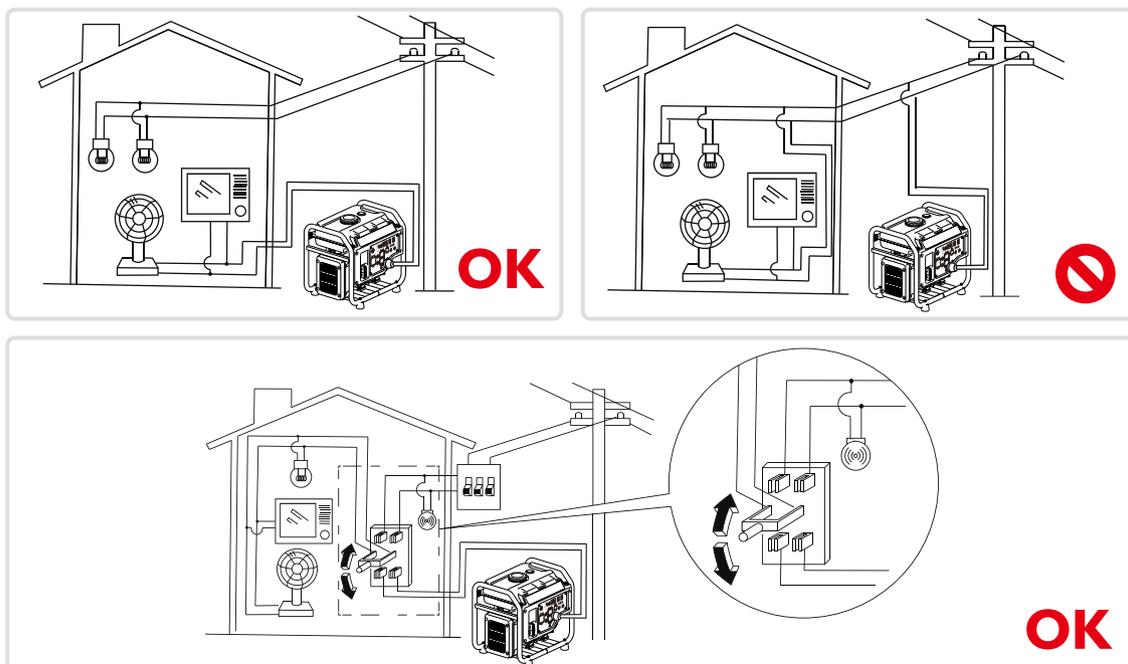
2 Generator Wiring

- 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 1.5mm^2

② 100m cross-section area is 2.5mm^2

- The appearance of extension cable shall be protected by a layer of tough and elastic rubber cover (IEC25) or other substitutes.



USING THE GENERATOR

Connection of AC power

WARNING

All electrical equipment shall be disconnected before inserting the plug.

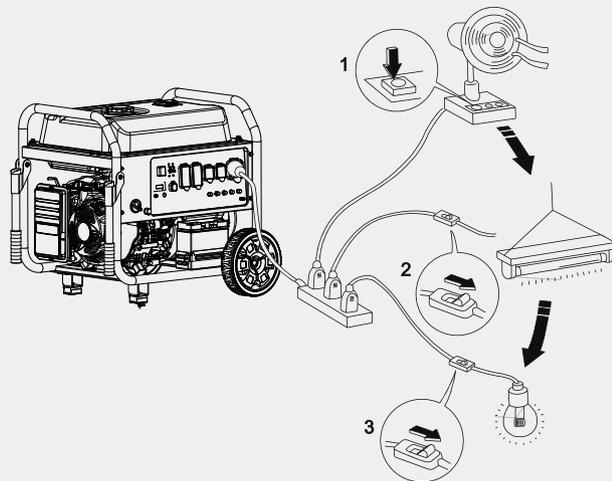
ATTENTION

- 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 5 ~ 10mm) 200mm 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.



Tip: How to change the grounding method please refer to the website: <https://www.genmaxpower.com/page/faq>

USING THE GENERATOR

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:

Attach the red clip of the special charger to the positive (red) lug of the battery, and the black clip to the negative (blue) lug of the battery. Be careful not to connect the positive and negative terminals incorrectly.

Tip: The charging time is about 30-40 minutes.



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 lithium-ion batteries properly charged and discharged can prolong battery life. Maintaining a power level of 10%-90% in lithium-ion batteries is beneficial for battery protection.

2. Choose the appropriate charging temperature

Lithium battery charging temperature range: 0-45°C.

3. Avoid overcharging

Overcharging of lithium-ion batteries must be avoided during the charging process. Overcharging of lithium-ion batteries 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:

Maintenance cycle		Each	First in 1 month or 20 hours	Then every three months or every 50 hours	100 hours per year or use
Item					
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.			
<p>* 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.</p>					

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.

SERVICE AND MAINTENANCE



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 high voltage assembly;



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.

Standard spark: GAS 5357

Spark plug gap: 0.65-0.85mm



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

SERVICE AND MAINTENANCE

5. Install the spark plugs in reverse order of removal.
Spark plug torque: $22.5 \pm 2.5 \text{N.m}$ ($199 \pm 22 \text{in-lb}$)



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 surface, start the generator, run it for a few minutes to increase its temperature, and then turn off the engine;

2. Unscrew the drain oil bolt;



3. Place the container and tilt the machine to drain the oil, tighten the drain bolt after the waste oil is discharged clean;



SERVICE AND MAINTENANCE

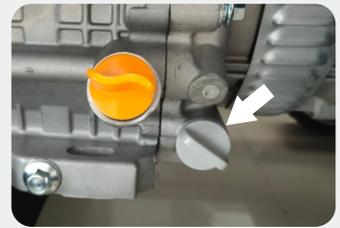
4. Refill oil to a proper level, tighten oil dipstick.
Recommended oil: SAE S10W/30
Oil grade: API standard Model SJ or higher
Volume: 0.3 gal(1.1L)



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.



SERVICE AND MAINTENANCE

- 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;



- Reassemble empty air cleaner cap back to original position, and tighten screws.



6 Fuel Filter Screen

WARNING

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

- Remove fuel tank cap and fuel tank filter screen.
- Clean fuel tank filter screen with gasoline.
- Wipe filter screen dry, and put it back into fuel tank.
- 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. Follow the shutdown steps to shut down the 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. Locate the carburetor to drain the remaining gasoline and place a suitable container to capture the emitted 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.



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

STORAGE AND TRANSPORT

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: <ol style="list-style-type: none"> No fuel in tank or fuel valve closed. Choke not in START position, cold engine. Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.) Low quality or deteriorated, old gasoline. Carburetor not primed. Dirty fuel passageways. Carburetor needle stuck. Fuel can be smelled in the air. Too much fuel in chamber. This can be caused by the carburetor needle sticking. Clogged Fuel Filter. 	FUEL RELATED: <ol style="list-style-type: none"> 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.). Move Choke to START position. 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.). Use fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.). Pull on Starter Handle to prime. Clean out passageways using fuel additive. Heavy deposits may require further cleaning. Gently tap side of carburetor float chamber with screwdriver handle. 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. Replace Fuel Filter.
	IGNITION (SPARK) RELATED: <ol style="list-style-type: none"> Power Switch at OFF position. Spark plug cap not connected securely. Spark plug electrode wet or dirty. Incorrect spark plug gap. Spark plug cap broken. Circuit breaker tripped (electric start models only). Incorrect spark timing or faulty ignition system. 	IGNITION (SPARK) RELATED: <ol style="list-style-type: none"> Turn Power Switch to ON. Connect spark plug cap properly. Clean spark plug. Correct spark plug gap. Replace spark plug cap. Reset circuit breaker. Check wiring and starter motor if breaker continues to trip. Have qualified technician diagnose/repair ignition system.
	COMPRESSION RELATED: <ol style="list-style-type: none"> Cylinder not lubricated. Problem after long storage periods. Loose or broken spark plug. (Hissing noise will occur when trying to start.) Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.) Engine valves or tappets mis-adjusted or stuck. 	COMPRESSION RELATED: <ol style="list-style-type: none"> Pour tablespoon of oil into spark plug hole. Crank engine a few times and try to start again. Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3. Tighten head. If that does not remedy problem, replace head gasket. Have qualified technician adjust/repair valves and tappets.
	ENGINE OIL RELATED: <ol style="list-style-type: none"> Low engine oil. Engine mounted on slope, triggering low oil shutdown. 	ENGINE OIL RELATED: <ol style="list-style-type: none"> Fill engine oil to proper level. Check engine oil before EVERY use. Operate engine on level surface. Check engine oil level.
	SPARK ARRESTOR RELATED: <ol style="list-style-type: none"> Spark Arrestor clogged with soot. 	SPARK ARRESTOR RELATED: <ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 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. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Dirty air filter 2. Engine running cold. 	<ol style="list-style-type: none"> 1. Clean element. 2. Allow engine to warm up prior to operating equipment.
Engine knocks	<ol style="list-style-type: none"> 1. Old or low quality gasoline. 2. Engine overloaded. 3. Incorrect spark timing, deposit buildup, worn engine, or other mechanical problems. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Impure or low quality gasoline. 2. Engine too cold. 3. Intake valve stuck or overheated engine. 4. Incorrect timing. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Device not plugged in properly. 2. Circuit Breaker tripped. 3. Product needs service. 	<ol style="list-style-type: none"> 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	<ol style="list-style-type: none"> 1. Problem with device. 2. Rated load capacity exceeded. 	<ol style="list-style-type: none"> 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.



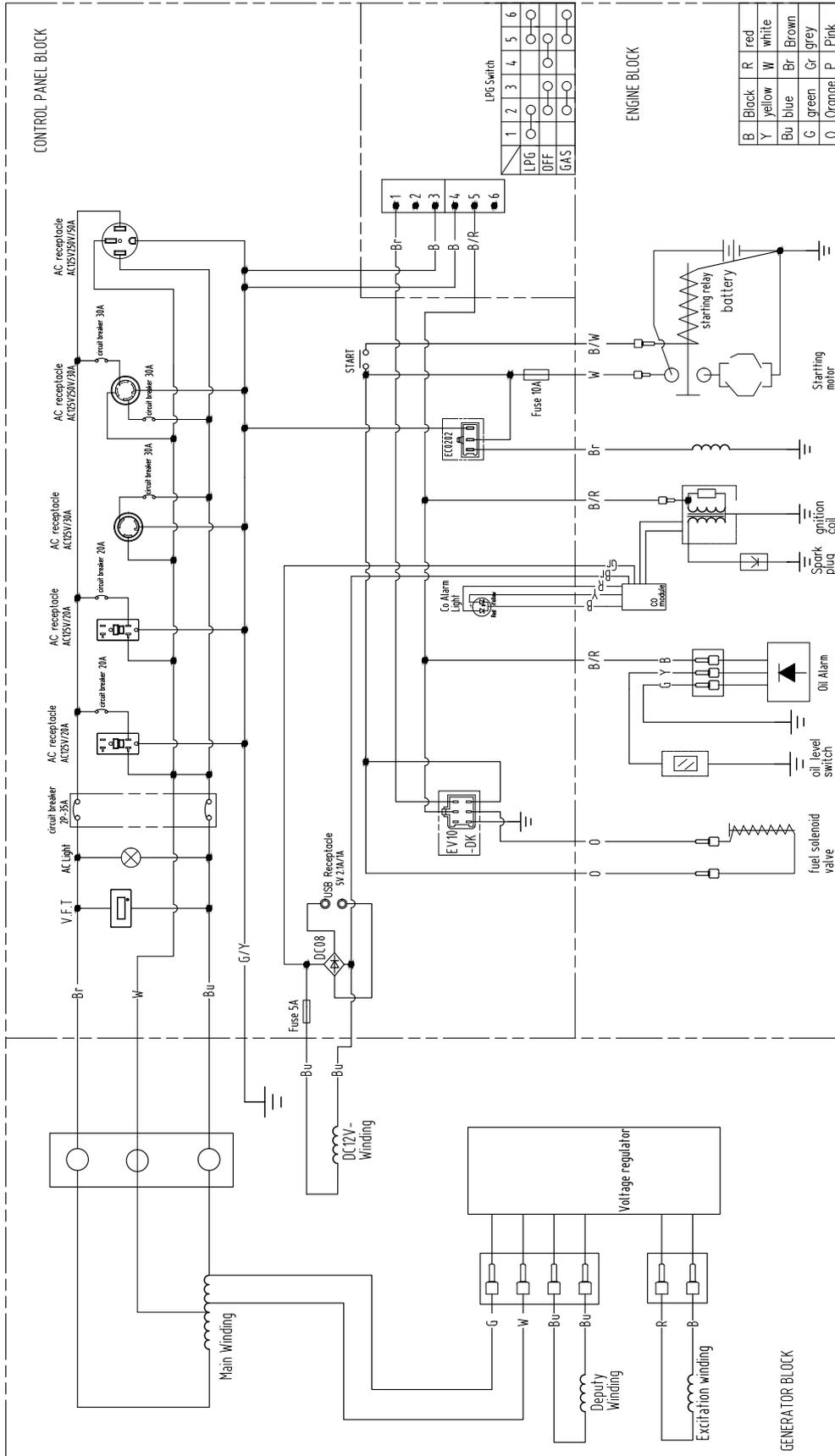
Follow all safety precautions whenever diagnosing or servicing the generator or engine.

TECHNICAL PARAMETERS

Item	GM12000ED
Rated Power (kW)	9.0(GAS.)/8.0PG)
Max. Power (kW)	12.0(GAS.)/9.0(LPG)
Engine Model	192F/P-2
Valve Clearance	Input valve:0.10~0.15 mm, Output valve:0.15~0.20 mm
Stroke x Bore (mm)	92x69
Engine Type	4-stroke
Displacement (cc)	458
Gas Distribution Mode	OHV
Cooling Mode	Forced cooling wind
Rated Speed (RPM)	3600
Starting Method	Recoil start/Electrical start
Fuel Tank Volume (gal)	10.6(40L)
Fuel Type and Grade	Vehicle-use unleaded gasoline
Lubricating Oil Capacity (gal)	0.3(1.1L)
Lubricating Oil Model	SAE 10W/40
Noise dB (at 7m)(25% load)	77
Rated Voltage (V)	120/240
Rated Frequency (Hz)	60
Rated Power Factor	1
Phase Number	Single phase
Run Time @ 25% (h)(GAS.)	16
Fuel Consumption Rate (25% load)(L/h)	2.5
Fuel Consumption Rate (100% load)(L/h)	5
LPG Consumption Rate (25% load)(kg/h)	1.1
LPG Consumption Rate (100% load)(kg/h)	2.1
THD	≤23%
Overall Dimension (in.)	27.9x21.1x24.6
Net Weight (lb.)	218.3

CIRCUIT DIAGRAM

GM1200ED SCHEMATICS



CHOOSING A GENERATOR

QUICK REFERENCE WATTAGE

Power Rating	Tool or Appliance	Running Watts	Starting Watts	
5500 – 12,000 Running 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	
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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