

INVERTER GENERATOR USER'S MANUAL





Portable Inverter Generator

3000 Running Watts | 3300 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.

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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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



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) User Manual (1) Funnel (1)

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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.

CAREFUL

Failure to follow the instruction will result in minor injury.

WARNING

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

ATTENTION

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

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.



Please do not use indoors



Please do not connect it to household appliances directly





Please do not use in humid environment



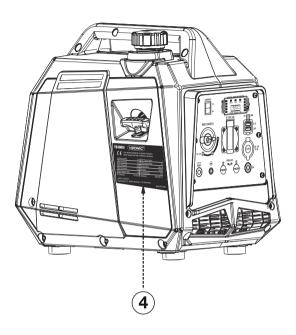
Please do not smoke when refueling

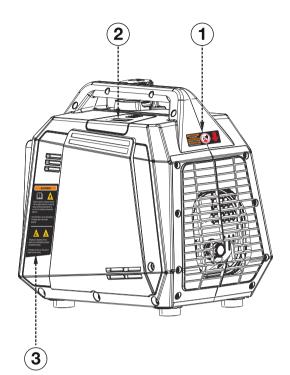


Please shut down the generator before refueling

SAFETY INSTRUCTIONS

SAFETY LABELS AND DECALS









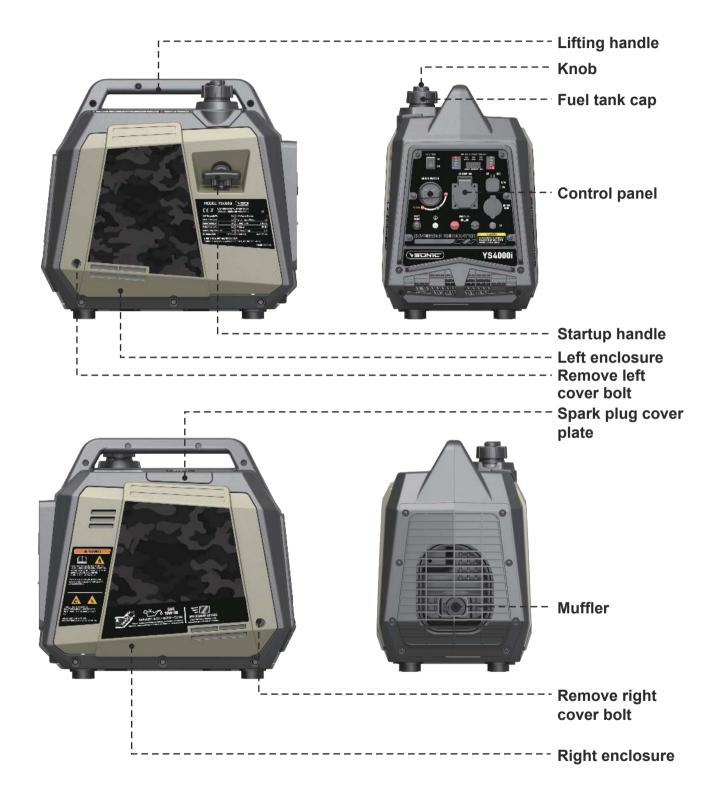


		LINVERTER GENERATO	
COP Power(kW):	3.0	COP Power Factor:	1
MAX Power(kW):	3.3	Performance Class:	G1
Rated Voltage(V):	230	Quality Class:	Class A
Rated Current(A):	13.0	IP Class:	IP23M
Rated Frequency(Hz):	50	Net Weight(kg):	21.5
DC Output(A):	12V 8.3A	Standards:	ISO 8528-13
A DESIGN BY: OPTIMAL THURLEDEWEG 125, 30			ANDS
			MADE IN CHIN

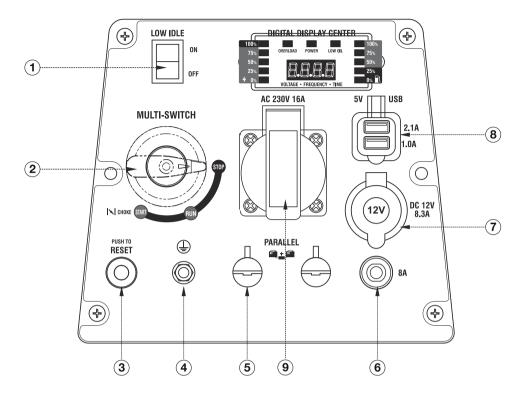


Before using the generator, please read the operation manual. Be careful with the shock hazard. Be careful, the fuel is flammable, do not add the fuel when the engine is running.

NAMES OF COMPONENTS



CONTROL FUNCTIONS



CONTROL PANEL FEATURES YS4000i

(1) Low Idle Switch: When turned to the ON position, the engine will sense the load needed and run at a slower RPM to save fuel.

(2) Engine Control Switch: Turn position to CHOKE to start the engine, and turn to RUN position once the engine is running. Switch to OFF to stop inverter.

(3) **Reset:** If the inverter is overloaded, the reset breaker will trip. The engine will continue to run, but there will be no output from the inverter. Unplug the devices and reduce the load. Push in the reset breaker to reset it.

④ Ground Terminal: The ground terminal is used to externally ground the inverter.

(5) arallel 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. (6) AC Breaker: If the inverter is overloaded, the reset breaker will trip to block current.

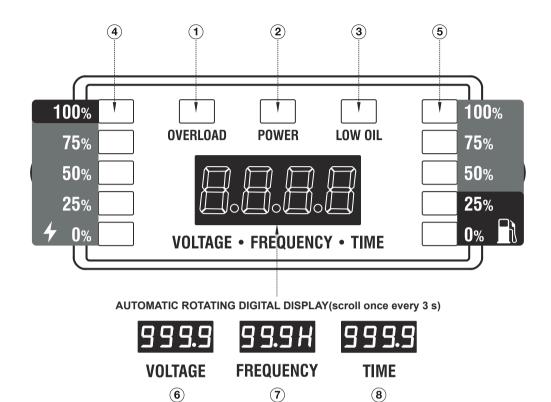
⑦ DC Cigarette lighter outlet: 12V DC 8.3A.

ISB Duplex: 5V DC that come in 1 amps and 2.1 amps.

(9) 230-volt, 16-amp Outlet: The outlet is capable of carrying a maximum of 16 amps.

CONTROL FUNCTIONS

DIGITAL DISPLAY CENTER



① **OVERLOAD:** Red light means the machine overload.

② **POWER:** Indicates the inverter is ready to be used.

③ **LOW OIL:** Yellow light means the amount of oil is too low.

④ POWER OUTPUT: Output power percentage display.

(5) **GASOLINE FUEL METER:** Gasoline fuel level display.

- **6 VOLTAGE:** Voltage display.
- ⑦ FREQUENCY: Frequency display.

ITIME: Represents total operation time of the generator.

PREPARATIONS

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.

• 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: 3.6L



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.** Loosen the bolt on the right cover counterclockwise and remove the right cover;



3. Unscrew oil dipstick, Fill in 0.45L oil (SAE 10W/30 oil is recommended, of which the grade is API standard Type SE or higher);



Don't go over the scale



4. Reassemble the right cover and tighten the bolts.

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

Fuel

• Check fuel level in fuel tank of the generator, and fuel it if necessary.

Oil

- Check oil level of the generator, and fill 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.

STARTING UP THE GENERATOR

- 1. Remove the load from all output ends;
- 2. Switch low idle switch to "OFF";
- **3.** Turn ventilation knob of fuel tank cap to "ON";

4. Turn multi-switch control to "START" position; Tip: When hot engine is started up, it is unnecessary to close the choke valve, but turn the combination switch to "RUN".

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

Tip: When pulling the hand starter, hold generator carrying handle firm, to prevent the generator from overturning.

6. After the generator starts, turn the multi-switch to "RUN".

7. Plug in after started.













SHUTTING DOWN THE GENERATOR

- 1. Unplug the power cord;
- **2.** Turn the multi-switch to "OFF" position;

3. After the generator has completely cooled down, turn ventilation knob on fuel tank cap to "OFF".



MULTI-SWITCH

USING THE GENERATOR

Service environment of the generator

- Applicable temperature: -5°C ~ 40°C;
- Applicable humidity: below 95%;

1

• 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 (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%.

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.

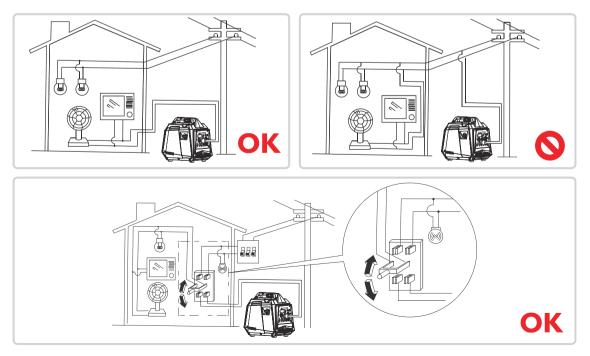
• After connecting the load to the generator, check carefully whether electrical connection is safe and reliable.

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 2.5mm²

• 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



All electrical equipment shall be disconnected before inserting the plug.

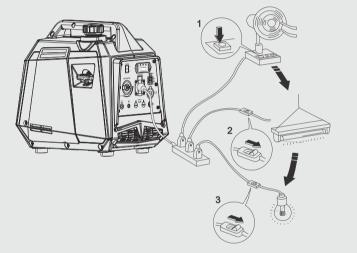
• Make sure that all electrical equipment, including wires and plugs, are in good condition before connecting to the generator;

- 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, energysaving 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 \sim 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.



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:

Check-fill			50 hours	year or use
	\checkmark			
Replace		\checkmark	\checkmark	
Check oil	\checkmark			
Replace		\checkmark	\checkmark	
Inspection	\checkmark			
Clean		\checkmark		
Replace			\checkmark	
Clean				\checkmark
Clean-adjust				√*
Clean			\checkmark	
Check-adjust				\checkmark
Check-adjust				\checkmark
Clean				\checkmark
Inspection	E	very two yeara (Ple	ase replace if eces	sary)
Remove carbon deposit**	Displacement < 225cc, every 125 hours; displacement capacity ≥ 225cc, every 250 hours.			
	Check oil Replace Inspection Clean Replace Clean Clean-adjust Clean Check-adjust Check-adjust Check-adjust Check-adjust Check-adjust	Check oil √ Replace	Check oil \checkmark Replace \checkmark Inspection \checkmark Clean \checkmark Clean \checkmark Clean \checkmark Clean-adjust \bigcirc Clean-adjust \bigcirc Clean \bigcirc Check-adjust \bigcirc Check-adjust \bigcirc Clean \bigcirc Check-adjust \bigcirc Clean \bigcirc Displacement < 225cc, ever capacity ≥ 225cc, every 25	Check oil \checkmark Replace \checkmark Replace \checkmark Inspection \checkmark Clean \checkmark Replace \checkmark Clean \checkmark Clean \checkmark Clean-adjust \checkmark Clean \checkmark Check-adjust \checkmark Check-adjust \checkmark Clean \checkmark Clean \checkmark Displacement < 225cc, every 125 hours; displacement <

* 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.

• 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.

Spark plug inspection

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

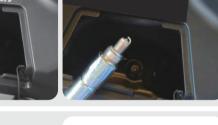
- Remove decorative cover and spark plug cap of the generator:
- 2. Insert the screwdriver into the sleeve, to screw it counterclockwise, and then remove the spark plug;
- 3. Check whether there is discoloration, and remove carbon deposits. Check whether there is little pale to moderate brown on ceramic cores around center electrode of the spark plug;
- **4** Check the model of spark plug and clearance. Spark plug gap: 0.7-0.8mm

Standard spark: BRAND MODEL C7HSA NGK **CR6HSA** TORCH A5RTC

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









Install the spark plugs in reverse order of removal.
 Spark cold torque: 14±1N.m(123.9±8.8in-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.** Loosen the bolt on the right cover counterclockwise and remove the right cover;



3. Unscrew oil dipstick;

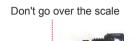


4 Place an oil pan under the engine, tilt the generator to guickly pour out oil; After discharging the oil, put the generator back on level ground;



5. Fill the oil to the appropriate level, tighten the dipstick, cover the outer cover, and tighten the bolts.

Recommended oil: SAE S10W/30 Oil grade: API standard Model SJ or higher Volume: 0.45L





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.

- Loosen the bolt on the right cover counterclockwise and remove the right cover;
- 2. Remove screws, to remove cover plate of air cleaner:
- 3. 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.

4. 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;







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



5 Fuel filter screen



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.





Be sure to screw fuel tank cap tight.

STORAGE AND TRANSPORT

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 the generator right exterior cover and enter the 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.



1. 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. 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.	 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.
	 Gasoline with more than 10% ethanol used. (E15, E20, E85, etc.) 	 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.	 Clean out passageways using fuel additive. Heavy deposits may require further cleaning.
	 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.
	 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). 	 Reset circuit breaker. Check wiring and starter motor if breaker continues to trip.
	 Incorrect spark timing or faulty ignition system. 	 Have qualified technician diagnose/ repair ignition system.
	COMPRESSION RELATED:	COMPRESSION RELATED:
	 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.
	 Loose or broken spark plug. (Hissing noise will occur when trying to start.) 	 Tighten spark plug. If that does not work, replace spark plug. If problem persists, may have head gasket problem, see #3.
	 Loose cylinder head or damaged head gasket. (Hissing noise will occur when trying to start.) 	 Tighten head. If that does not remedy problem, replace head gasket.
	 Engine valves or tappets mis-adjusted or stuck. 	 Have qualified technician adjust/ repair valves and tappets.
	ENGINE OIL RELATED:	ENGINE OIL RELATED:
	1. Low engine oil.	 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.	1. Check cap and wire connections.
	 Incorrect spark plug gap or damaged spark plug. 	2. Re-gap or replace spark plug.
	3. Defective spark plug cap.	3. Replace spark plug cap.
	4. Old or low quality gasoline.	 Use only fresh 87+ octane stabilizer-treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).
	5. Incorrect compression.	 Diagnose and repair compression. (Use Engine will not start: COMPRESSION RELATED section.)
Engine stops suddenly	1. Carbon Monoxide level high. Red light	1. Leave area immediately and allow area to ventilate
	on Carbon Monoxide Sensor illuminates. 2. CO Sensor Alarm flashes yellow continually shortly after starting.	 thoroughly. Only operate generator outside. Carbon monoxide sensor malfunction. Sensor needs service. Do not use the Generator
		until the sensor is working properly.
	 CO Sensor Alarm flashes yellow continually after longer period of operation. 	 Make sure to operate generator within rated ambient temperature; maintain minimum ft. clearance from all sides.
	4. Low oil shutdown.	 Fill engine oil to proper level. Check engine oil before EVERY use.
	 Fuel tank empty or full of impure or low quality gasoline. 	 Fill fuel tank with fresh 87+ octane stabilizer treated unleaded gasoline. Do not use gasoline with more than 10% ethanol (E15, E20, E85, etc.).
	 Defective fuel tank cap creating vacuum, preventing proper fuel flow. 	 Test/replace fuel tank cap.
	7. Faulty magneto.	7. Have qualified technician service magneto.
	8. Disconnected or improperly connected spark plug cap.	8. Secure spark plug cap.
Engine stops when	1. Dirty air filter	1. Clean element.
under heavy load	2. Engine running cold.	2. Allow engine to warm up prior to operating equipment.
Engine knocks	1. Old or low quality gasoline.	1. Fill fuel tank with fresh 87+ octane stabilizer-treated
	2. Engine overloaded.	unleaded gasoline. Do not use gasoline with more than
	3. Incorrect spark timing, deposit buildup, worn engine, or other	10% ethanol (E15, E20, E85, etc.).
	mechanical problems.	2. Do not exceed equipment's load rating.
		3. Have qualified technician diagnose and service engine.
Engine backfires	1. Impure or low quality gasoline.	 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. Engine too cold.	 Use cold weather fuel and oil additives to prevent backfiring.
	3. Intake valve stuck or overheated engine.	3. Have qualified technician diagnose and service engine.
	4. Incorrect timing.	4. Check engine timing.
Attached device doesn't have power	1. Device not plugged in properly.	1. Turn off and unplug the device, then plug it back in again and turn on.
	2. Circuit Breaker tripped.	2. Turn off and unplug device, reset Circuit Breaker, plug in device and turn on.
	3. Product needs service.	3. Have product repaired.
Attached device begins to operate abnormally	1. Problem with device.	 Immediately unplug device. Have device repaired by a qualified technician, or replace device.
	2. Rated load capacity exceeded.	 Lower the number of items plugged into the generator to stay within the rated capacity, or use a more powerful generator.



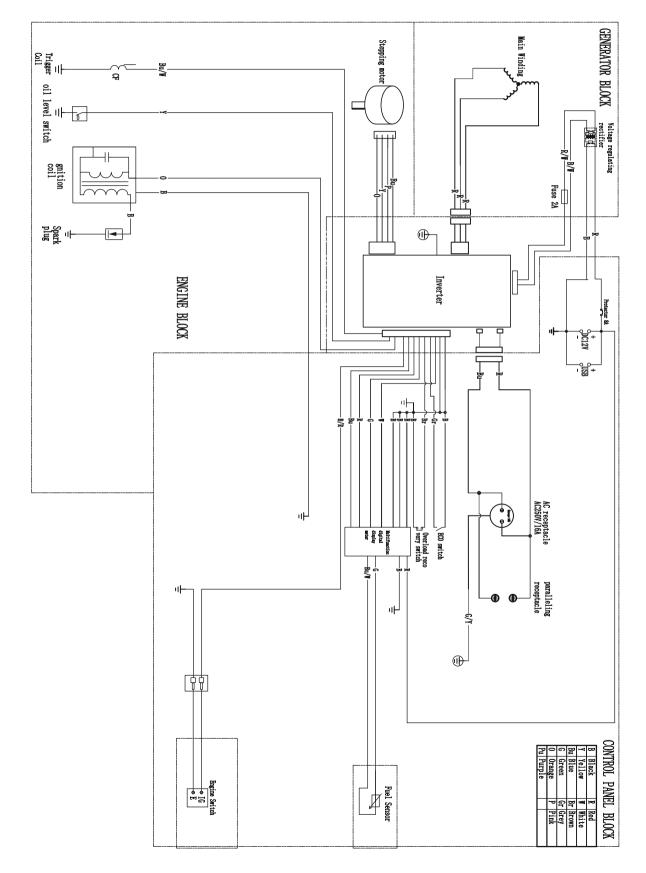
Follow all safety precautions whenever diagnosing or servicing the generator or engine.

TECHNICAL PARAMETERS

Item	YS4000i
Rated Power (kW)	3.0
Max. Power (kW)	3.3
Engine Model	164F/P
Valve Clearance	Input valve:0.03~0.08mm, Output valve:0.03~0.08mm
Stroke x Bore (mm)	64x45
Engine Type	4-stroke
Displacement (cc)	145
Gas Distribution Mode	OHV
Cooling Mode	Forced cooling wind
Rated Speed (RPM)	4600
Starting Method	Recoil start
Fuel Tank Volume (L)	3.6
Fuel Type and Grade	Vehicle-use unleaded gasoline
Lubricating Oil Capacity (L)	0.45
Lubricating Oil Model	SAE 10W/30
Noise dB (at 7m)(25% load)	62
Rated Voltage (V)	230
Rated Frequency (Hz)	50
Rated Power Factor	1
Phase Number	Single phase
Run Time @ 25% (h)	6
Fuel Consumption Rate (25% load)(L/h)	0.85
Fuel Consumption Rate (100% load)(L/h)	1.9
THD	≤3%
Overall Dimension (mm)	485×285×455
Net Weight (kg)	21.5

CIRCUIT DIAGRAM

YS4000i SCHEMATICS





CHOOSING A GENERATOR

Q	UIC	KF	REFERENCE W	ΑΤΤ	AGE
Pov	ver Ra	ting	Tool or Appliance	Running Watts	Starting Watts
ហ	N	1	Blender	300	650
ហ	2800		Coffee Maker	1500	
H			Drill	600	900
1	1	L.	Fan	200	
5500 - 12,000 Running Watts	- 3800 Running Watts	1200 - 1800 Running Watts	Furnace 1/4 hp	600	1000
,	ö		Game console	150	
			Hand sander	600	1200
	R	Ĩ	Hedge trimmer	450	1200
2 L		n	Lamp	100	
nn	l≓i	in l	Laptop	800	
in	Ð		LED/LCD TV	150	
d /	\leq	2 2	Microwave	1000	
N	at	Ē	Modem/router	20	
att	ts	S	Paint sprayer	600	600
S			Radio	100	
			Slow cooker	200	200
			String trimmer	350	875
			Sump Pump 1/3 hp	800	1300
			Work light	1000	
			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 f	or referen	ce only. Check your device for ACTUAL watta	ige requirem	ents.

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 Lamp Microwave Refrigerator	600 100 1000 700
Total Running Watts	2400
2 Calculate Star	ting Watts:
Calculate Star Total Running Wattage Refrigerator	ting Watts: 2400



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.

