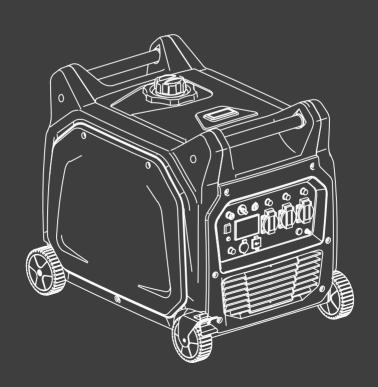


User's Manual

INVERTER GENERATOR HY6500SEI





INTRODUCTION

Thank you for purchasing this Inverter Generator. Before attempting to use this product, please read this manual thoroughly and follow the instructions carefully. In doing so you will ensure the safety of yourself and that of others around you, and you can look forward to your purchase giving you long and satisfactory service.

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WARNING

PLEASE READ AND UNDERSTAND THIS MANUAL COMPLETELY BEFORE OPERATING THE MATCHINE.

SAFFTY INFORMATION

EXHAUST FUMES ARE POISONOUS

Never operate the engine in a closed area or it may cause unconsciousness and death within a short time. Operate
the engine in a well ventilated area.

FUEL IS HIGHLY FLAMMABLE AND POISONOUS

- Always turn off the engine when refueling
- Never refuel while smoking or in the vicinity of an open flame.
- Take care not to spill any fuel on the engine or muffler when refueling.
- If you swallow any fuel, inhale fuel vapor, or allow any to get in your eyes, see your doctor immediately. If any fuel spills on your skin or clothing, immediately wash with soap and water and change your clothes.
- When operating or transporting the machine, be sure it is kept upright. If it tilts, fuel may leak from the carburetor or fuel tank.

ENGINE AND MUFFLER MAY BE HOT

- Place the machine in a place where pedestrians or children are not likely to touch the machine.
- Avoid placing any flammable materials near the exhaust outlet during operation.
- Keep the machine at least 1 m (3 ft) from buildings or other equipment, or the engine may overheat.
- Avoid operating the engine with a dust cover.
- Be sure to carry the generator only by its carrying handle.
- Put the machine on the flat ground, for the machine eliminating heat freely.

ELECTRIC SHOCK PREVENTION

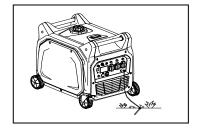
- Never operate the engine in rain or snow.
- Never touch the machine with wet hands or electrical shock will occur.
- Be sure to ground (earth) the generator.

NOTF:

Use ground (earth) lead of sufficient current capacity.

Diameter: 0.12mm (0.005 in)/ampere

EX: 10 Ampere --1.2mm (0.055 in)

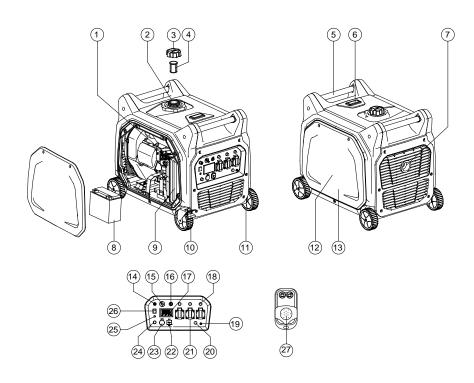


CONNECTION NOTES

- Avoid connecting the generator to commercial power outlet.
- Avoid connecting the generator in parallel with any other generator.

CONTROL FUNCTION

(1) Spark plug	(2) Fuel tank	(3) Fuel tank cap
(4) Fuel filter	(5) Carrying handle	(6) Fuel level gauge
(7) Muffler	(8) Battery	(9) Air filter
(10) Brake lever	(11) Wheel	(12) Oil filler cap
(13) Oil drain plug	(14) Choke rod	(15) Fuel cock
(16) Engine switch	(17) Data display instrument	(18) AC protector 16A
(19) Ground (earth) terminal	(20) ATS receptacle	(21) AC receptacle
(22) USB Output	(23) DC 12V receptacle	(24) DC protector
(25) Output reset	(26) Economy control switch	(27) Remote control



OIL WARNING SYSTEM

When the oil level falls below the lower level, the engine stops automatically. Unless you refill with oil, the engine will not start again.

ENGINE SWITCH

The engine switch controls the ignition system.

(1) RUN

Ignition circuit is switched on. The engine can be started.

② STOP

Ignition circuit is switched off. The engine will not run.

3 START

Starting circuit is switched on. The starter motor starts.

ECONOMY CONTROL SWITCH

When the economy control switch is turned **ON**, the economy control unit control the engine speed according to the connected load. The results are better fuel connection and less noise.

DC CIRCUIT PROTECTOR

The DC circuit protector turns off automatically when the load exceeds the generator rated output.

CAUTION:

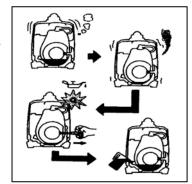
 Reduce the load to within specified generator rated output if the DC circuit protector turn off.

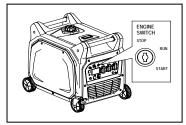
OUTPUT RESET

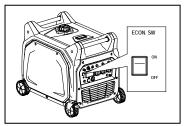
Push reset button for continuous 2 seconds, the generator will recover the AC output when the generator stop AC output under overload protect.

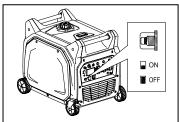
NOTE:

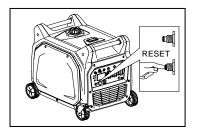
Please reduce the load of generator to ensure that the total load is within the rated power.











REMOTE CONTROL SWITCH

The remote control switch controls the ignition system







The engine will not run.

BRAKE LEVER

The function of brake lever is preventing generator moving.

Brake lever is not working, generator can move.

2 Brake lever is working, generator can't move.



The fuel cock is used to supply fuel from the tank to the carburetor.

DATA DISPLAY INSTRUMENT

Normal

1

Short Circuit

 \triangleright

Over Current

1

Maintenance

High Volt of AC output with E1AC indicated

U≫

High Volt DC mother line with E1DC indicated

Low Volt of AC output with E1AC indicated

U≥

U<

Low Volt of DC mother line with F2DC indicated.

MCU High Temperature with E3 indicated

IGBT High Temperature with E4 indicated



Low Oil with yellow light on

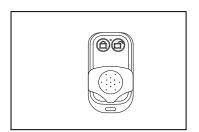
FAULT

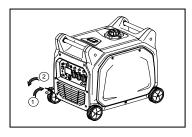
Defects or Overloads with red light on

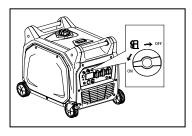
OUTPUT Normal Running with green light on

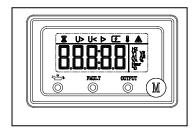


Mode Selections: V1→A1→V2→A2→VA→Total Running Time →Current Running Time









PRE-OPERATION CHECK

NOTE:

 Pre-operation checks should be made each time the generator is used.

CHECK ENGINE FUEL

- Make sure there is sufficient fuel in the tank.
- If fuel is low, refill with unleaded automotive gasoline.
- Be sure to use the fuel filter screen on the fuel filter neck.
- Recommended fuel: Unleaded gasoline.
- Fuel tank capacity: (see page 17)

WARNING:

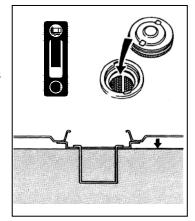
- Do not refill tank while engine is running or hot.
- Close fuel cock before refueling with fuel.
- Be careful not to admit dust, dirt, water or other foreign objects into fuel.
- Do not fill above the top of the fuel filter or it may overflow when the fuel heats up later and expands.
- Wipe off spilt fuel thoroughly before starting engine.
- Keep open flames away.

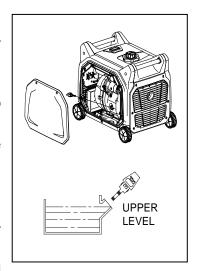
CHECK ENGINE OIL

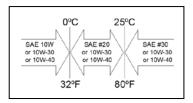
Make sure the engine oil is at the upper level of the oil filler hole. Add oil as necessary.

- Remove oil filler cap and check the engine oil level.
- If oil level is below the lower level line, refill with suitable oil to upper level line. Do not screw in the oil filler cap when checking oil level.
- Change oil if contaminated.
 Oil capacity: (see page 17)
- Recommended engine oil:

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GROUND (Earth)

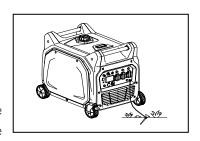
Make sure to ground (earth) the generator.

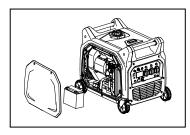
CONNET BATTERY

- Loosen the screw and remove the battery cover.
- Clamp the red wire to the positive (+) terminal and the black wire to the negative (-) terminal of the battery. Do not reverse these positions.
- Be sure the battery is installed on the battery mount tray securely.
- Install the cover and tighten the screw.

NOTE:

Recommended battery: 12V18AH.

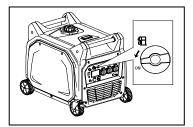




OPERATION

NOTE:

- The generator has been shipped without engine oil. Fill with oil or it will not start.
- Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine.



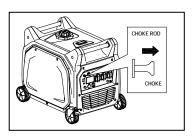
STARTING THE ENGINE

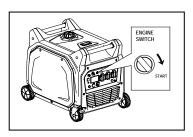
NOTE:

Before starting the engine, do not connect the electric apparatus.

A Electric start

- 1. Turn the fuel cock lever to the **ON** position.
- 2. Pull out choke rod to the CHOKE position.
- 3. Turn the engine switch to the START position.





- 4. Turn the engine switch to the **RUN** position.
- 5. Push choke rod to the RUN position.
- 6. Warm up the engine without a load for a few minutes.

B Remote start

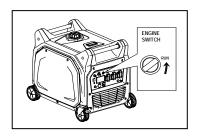
- Please make sure the fuel shutoff valve to the ON position, the choke rod to the RUN position, the engine switch to the RUN position.
- 2. Press the button on the remote control (key fob) twice.
- 3. Please wait 10 seconds and repeat again if it couldn't start.
- 4. Warm up the engine without a load for a few minutes.

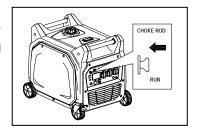
C ATS start

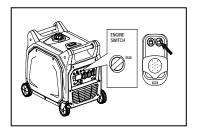
- Please make sure the fuel valve to the ON position, the choke lever at the RUN position, the engine switch to the RUN position.
- Connect the communication wire between the generator and ATS unit
- Connect ATS MAINS POWER to the electric supply grid
- Connect ATS GENERATOR POWER to the generator AC output
- Connect home appliances to ATS OUTPUT
- Switch ATS at the position of AUTO, when the electric supply stops, the generator would automatically started to power the home appliances, when the electric supply goes normal, the generator would stop automatically and the electric supply would power the home appliances.

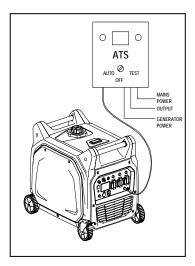
CAUTION:

- Make sure there are enough fuel inside the generator tank.
- Make sure generator battery fully be charged and at least charged each two months









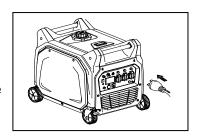
USING FLECTRIC POWER

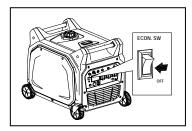
1. AC APPLICATION

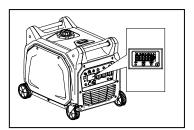
- (a) Check the AC pilot lamp for proper voltage.
- (b) Turn off the switch(es) of the electrical appliance(s) before connecting to the generator.
- (c) Insert the plug(s) of the electrical appliance(s) into the receptacle.

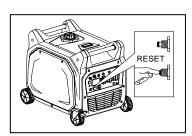
CAUTION:

- Be sure the electric apparatus is turned off before plugging in.
- Be sure the total load is within generator rated output.
- Be sure the socket load current is within socket rated current.
- The economy control switch must be turned to OFF when using electric devices that require a large starting current, such as a compressor or a submergible pump.









2. OVERLOAD INDICATOR LIGHT

The overload indicator light comes on when an overload of a connected electrical device is detected, the inverter unit overheats, or the AC output voltage rises. The electronic breaker will then activate, stopping power to the generation in order to protect the generator and any connected electric devices. The overload indicator light (red) will turn on, then the generator will stop output. If so please follow the following steps:

- (a) Turn off any connected electric devices
- (b) Reduce the total wattage of connected electric devices within the application range.
- (c) Check for blockages in the cooling air inlet and around the control unit. If any blockages are found, remove.
- (d) After checking, push output reset.

CAUTION:

- The generator AC output automatically resets when the engine is stopped and then restarted.
- The overload indicator light may come on for a few seconds at first when using electric devices that require a large starting current, such as a compressor or a submergible pump. However, this is not a malfunction.

3. DC APPLICATION (option)

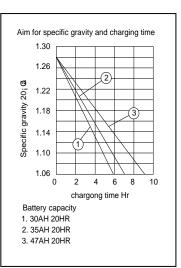
This usage is applicable to 12V battery charging only.

(a) Charging instruction for battery

battery.

- Disconnect the leads for the battery.
- Make the battery fluid filler cap loose fully.
- Fill distilled water to the upper limit, if the battery fluid is low level.
- Measure the specific gravity for the battery fluid by using the hydrometer, and calculate the charging time in according with the table shown on right side.
- The specific gravity for the fully charged battery shall be within 1.26 to 1.28. It is recommended to confirm every an hour.
- (b) Connect between the DC output socket and the battery terminals using the charging leads. The leads shall be connected making sure of the (+) and (-) polarity.
- (c) The DC circuit protector is to be set to ON after confirming the connection, if the protector is in OFF position.

connection, if the protector is in OFF position. CAUTION: Be sure the economy control switch is turned off while charging the



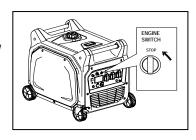


STOPPING THE ENGINE

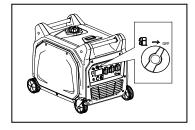
- 1. Turn off the power switch of the electric apparatus or disconnect any electric devices.
- 2. Turn the engine switch to **STOP** position.

 Click remote switch to the position.
- 3. Turn the fuel cock lever to **OFF**.

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PERIODIC MAINTENANCE

MAINTENANCE CHART

IVIAINIEN	ANCE CHART	,				
		Pre-operation	Initial	Every	Every	Every
Item	Remarks	check	1 months	3 months	6 months	12 months
		(daily)	or 20 Hr	or 50Hr	or 100Hr	or 300Hr
Spark	Check condition adjust gap and			•		
Plug	clean. Replace if necessary.					
Engine	Check oil level	•				
Oil	Replace		•		•	
Oil filter	Clean oil filter				•	
Air Filter	Clean. Replace if necessary.			•		
Fuel Filter	Clean fuel cock filter. Replace if					
	necessary				•	
Choke	Check choke operation	•				
Valve	Check and adjust when engine					
Clearance	is cold.					•
Fuel Line	Check fuel hose for crack or	_				
	damage. Replace if necessary.	•				
Exhaust	Check for leakage. Retighten or	_				
System	replace gasket if necessary	•				
	Check muffler screen.					_
	Clean / replace if necessary.					•
Carburetor	Check choke operation	•				
Cooling	Check fan damage.					
system						•
Starting	Check recoil starter operation.	_				
system	·	•				
Idle speed	Check and adjust engine idle speed					•
Fittings /	Check all fittings and fasteners				_	
Fasteners	correct if necessary.				•	
Crankcase	Check breather hose for cracks or					
breather	damage. Replace if necessary					•
Generator	Check the pilot light comes on	•				
	1	1				1

Regular maintenance is most important for the best performance and safe operation.

FNGINF OIL REPLACEMENT

- Place the machine on a level surface and warm up the engine for several minutes. Then stop the engine and turn the fuel cock knob to OFF. Turn the fuel tank cap air vent knob clockwise.
- 2. Loosen the screw and remove the cover.
- 3. Remove the oil filler cap
- Place an oil pan under the engine. Tilt the generator to drain the oil completely
- 5. Replace the generator on a level surface.
- 6. Add engine oil to the upper level.
- 7. Install the oil filler cap
- 8. Install the cover and tighten the screw
- Recommended engine oil: (see page 17)

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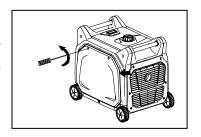
CAUTION:

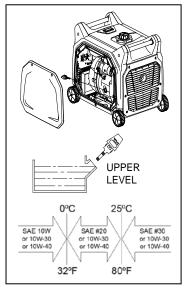
- Be sure no foreign material enters the crankcase.
- Do not tilt the generator when adding engine oil. This could result in overfilling and damage to the engine
- Clean the oil filter every other 100hr.

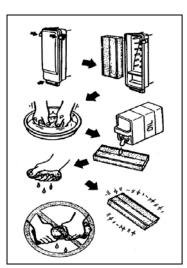
AIR FII TFR

Maintaining an air cleaner in proper condition is very important. Dirt induced through improperty installed, improperty serviced, or inadequate elements damages and wears out engines. Keep the element always clean.

- Remove the cover.
- 2. Remove the air filter cover and element.
- 3. Wash the element in solvent and dry.
- Oil the element and squeeze out excess oil. The element should be wet but not dripping.
- 5. Insert the element into the air filter.
- Install the cover







CAUTION:

The engine should never run without the element; excessive piston and/or cylinder wear may result.

CLEANING AND ADJUSTING SPARK PLUG

- Remove the cover.
- 2. Check for discoloration and remove the carbon.
- 3. Check the spark plug type and gap.
- 4. Install the spark plug.
- 5. Install the cover

Standard electrode color: Tan Color Standard Spark Plug: F6RTC (TOUCH) Spark Plug Gap: 0.6-0.7 mm (0.024-0.028 in)

FUEL TANK FILTER

- 1. Remove the fuel tank cap and filter.
- 2. Clean the filter with solvent. If damaged, replace.
- 3. Wipe the filter and insert it.

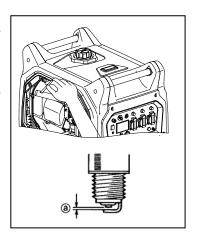
WARNING

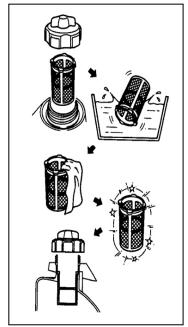
Be sure the tank cap is tightened securely.

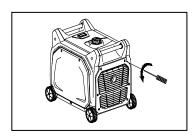
MUFFLER SCREEN

WARNING

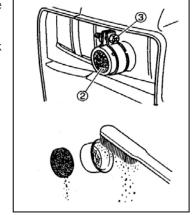
- The engine and muffler will be very hot after the engine has been run.
- Avoid touching the engine and muffler while they are still hot with any part of your body or clothing during inspection or repair.
- Remove the cover.
- 2. Remove the muffler screen.







- Use the flathead screw driver to pry the spark arrester out from the muffler
- Remove the carbon deposits on the muffler screen and spark arrester using a wire brush.
- 5. Install the muffler screen.
- 6. Install the cover



TROUBLE SHOOTING

Engine won't start

- 1. Fuel systems
 - No fuel supplied to combustion chamber.
- No fuel in tank....Supply fuel.
- Fuel in tank....Fuel tank cap air vent knob to ON, fuel cock knob to ON.
- Clogged fuel line....Clean fuel line.
- Clogged carburetor....Clean carburetor.
- 2. Engine oil system

Insufficient

- Oil level is low....Add engine oil.
- 3. Electrical systems

Poor spark

- Spark plug dirty with carbon or wet....Remove carbon or wipe spark plug dry.
- Faulty ignition system....Consult dealer.
- 4. Compression insufficient
- Worn out piston and cylinder....Consult dealer.

Generator won't produce power

Safety device (AC) to OFF ... Stop the engine, then restart.

Safety device (DC) to OFF ... Press to reset the DC protector

STORAGE

Long term storage of your machine will require some preventive procedures to guard against deterioration.

DRAIN THE FUEL

- 1. Remove the fuel tank cap, drain the fuel from the fuel tank
- 2. Remove the cover, drain fuel from the carburetor by loosening the drain screw.

ENGINE

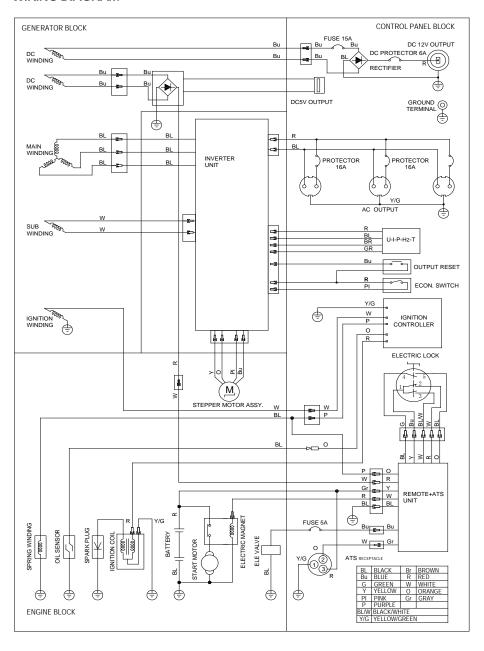
- Remove the spark plug, pour in about one tablespoon of SAE 10W30 or 20W40 motor oil into the spark plug hole and reinstall the spark plug.
- 2. Use the recoil starter to turn the engine over several times (with ignition off).
- 3. Pull the recoil starter until you feel compression.
- 4. Stop pulling.
- 5. Clean exterior of the generator and apply a rust inhibitor.
- 6. Store the generator in a dry, well-ventilated place, with the cover place over it.
- 7. The generator must remain in a vertical position.

SPECIFICATION

MODE	L	HY6500SEi			
GENERATOR	Туре	Inverter Generator			
	AC Voltage	230V,240V			
	Frequency	50Hz			
	Max. Output	6.5 kW			
	Rated Output	6.0 kW			
	Power Factor	1.0			
	DC Output	12V / 5.0A 5V/3.1A			
	Model	IC188F-1			
	Туре	Air-cooled, 4 cycle, OHV, Gasoline Engine			
	Bore×Stroke mm×mm	88×64			
ш	Displacement	389cc			
	Max. Output	7.5kW/3600rpm			
	Fuel	Regular Automobile Gasoline			
ENGINE	Fuel tank Capacity	18.5 liters			
	Rated Continuous Operation	4h30min (100% Load)			
	Lubricating oil	SAE 10W30			
	Lubricating oil Capacity	1.1 liter			
	Starting System	Electric Starter / Remote starter / ATS			
	Ignition system	C.D.I.			
	Spark Plug: Type	F6RTC			
DIMENSION	Net dimension L×W×H	750×537×630			
	Overall dimension L×W×H	825×615×700			
	Net Weight	89 kg			
	Dry Weight	94 kg			

Specifications subject to change without prior notice.

WIRING DIAGRAM





Imported by: GRV POWER PRODUCTS, S.L.

Av. Àlguema, 8A 17771 Santa Llogaia d'Àlguema (Girona) T: (+34) 972 673 836 www.grvpower.com