

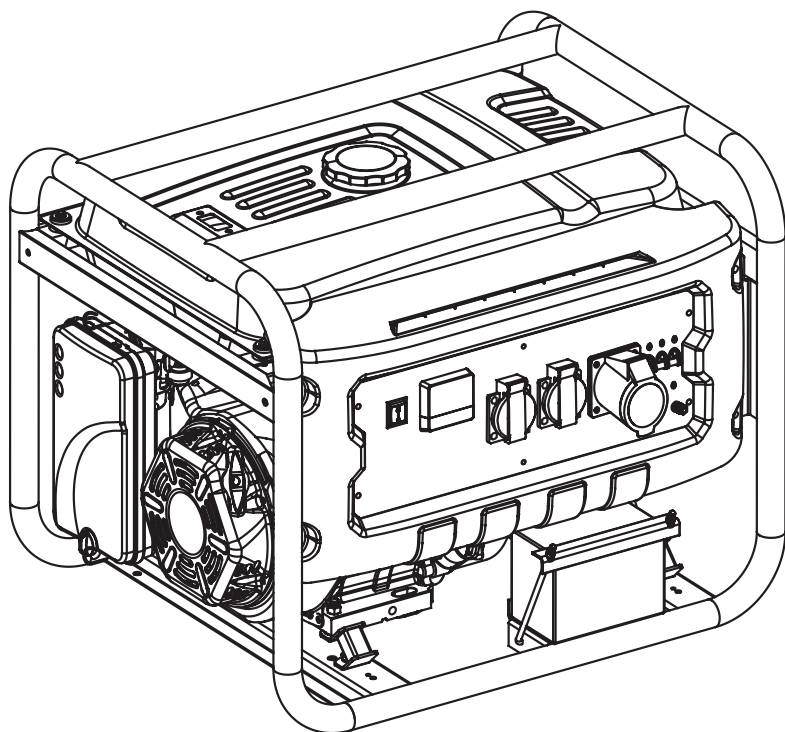
# D'ORLY

## GENERATORS

EN

### OWNERS MANUAL

DO5500E - DO6000E - DO8500E





*Read the manual before using the generator to ensure it is used safely and responsibly. Always make sure that everybody who operates the generator has read the manual and is aware of its operation requirements. Failing to do so may result in serious injury.*

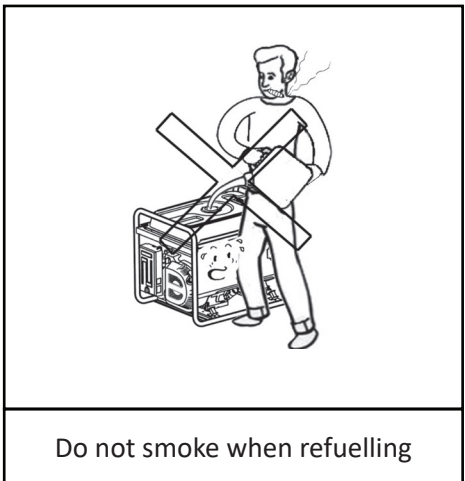
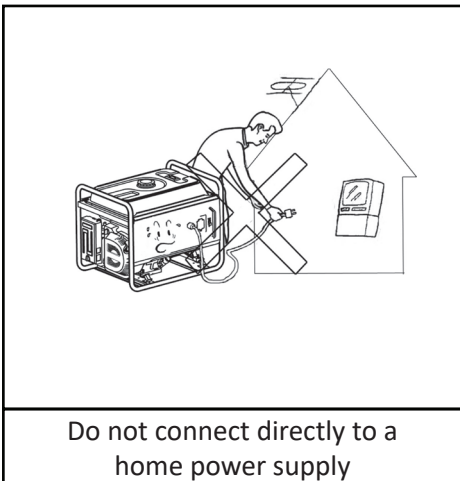
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# 1. SAFETY NOTICE

## 1. Safety standard

Read and understand this owner's manual before operating your generator. You can prevent accidents by being familiar with your generator's controls, and by observing safe operating procedures.

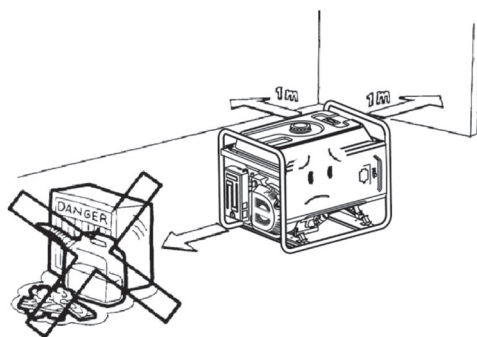




Do not overfill when refuelling



Stop the engine before refuelling



Keep the generator at least 1 meter away from inflammable materials

## 2. Special requirements

- Electrical equipment including power cords and plugs should not have any exposed metal wire.
- Circuit breakers should match with the generator equipment.
- Do not operate the generator before grounding.
- When using extension cords do not exceed a length of 60m for 1,5mm<sup>2</sup> cable; and a length of 100m for 2,5mm<sup>2</sup> cable.

### **3. Overcurrent protector**

Environmental temperature could trigger the overcurrent protector. Change the overcurrent protector with one that fits the local environment if necessary.

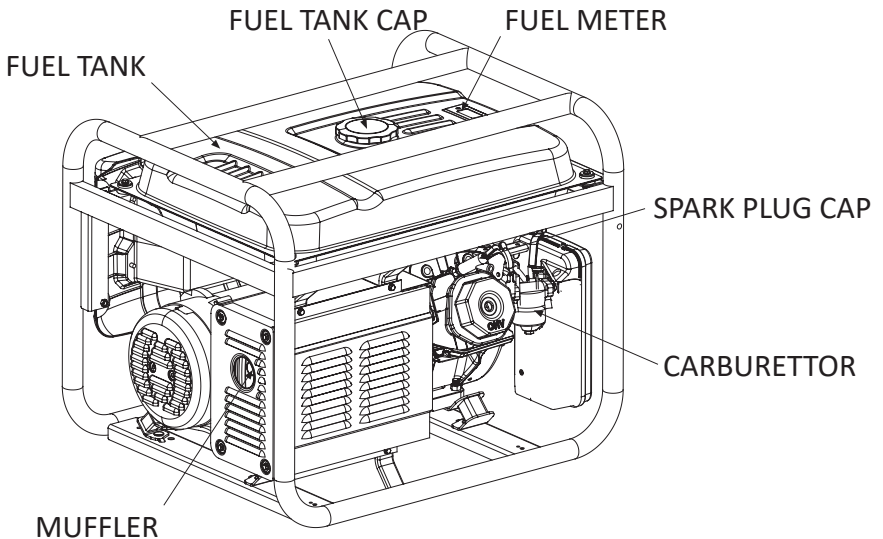
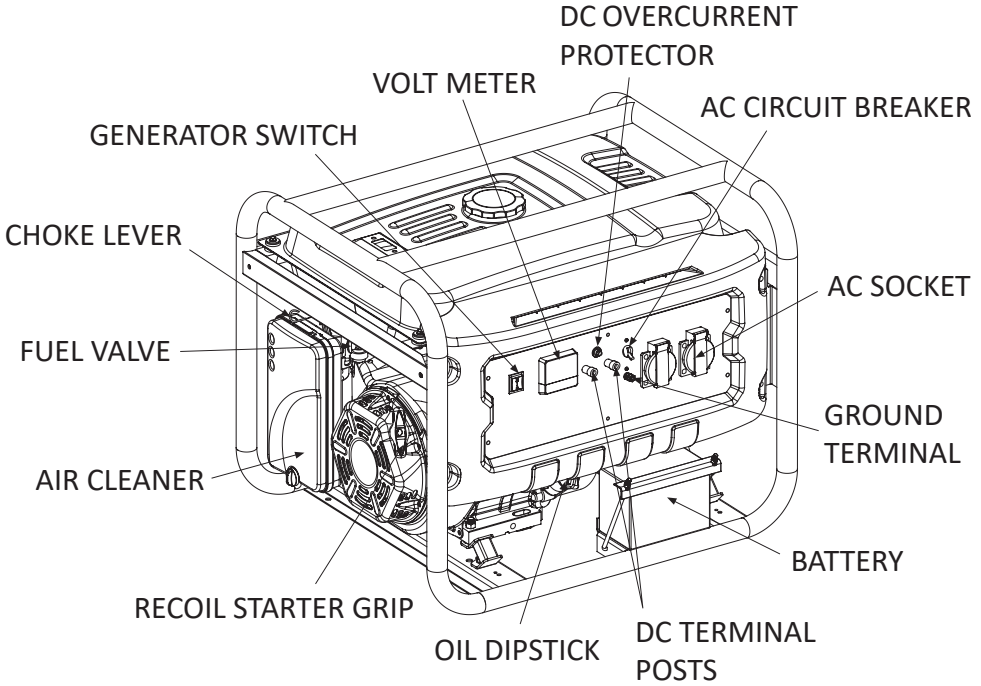
## **WARNING**

Do not switch the output voltage while under load.

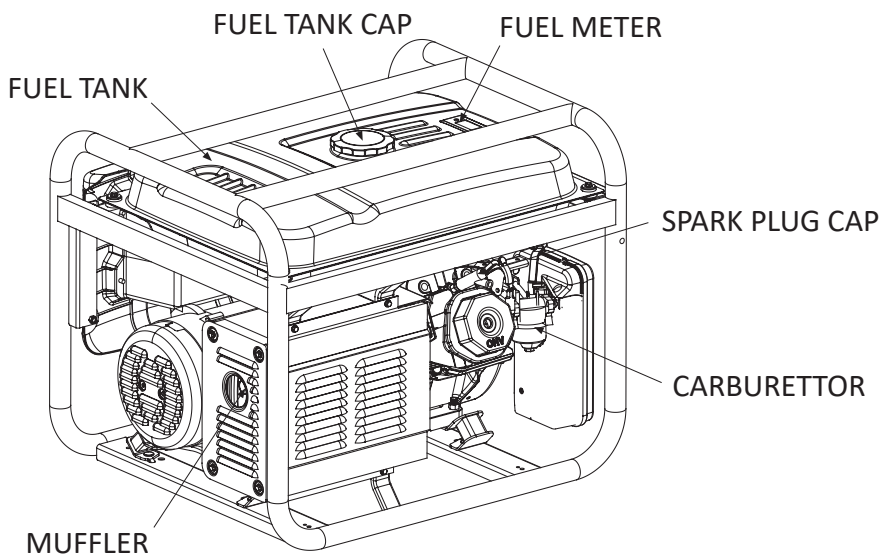
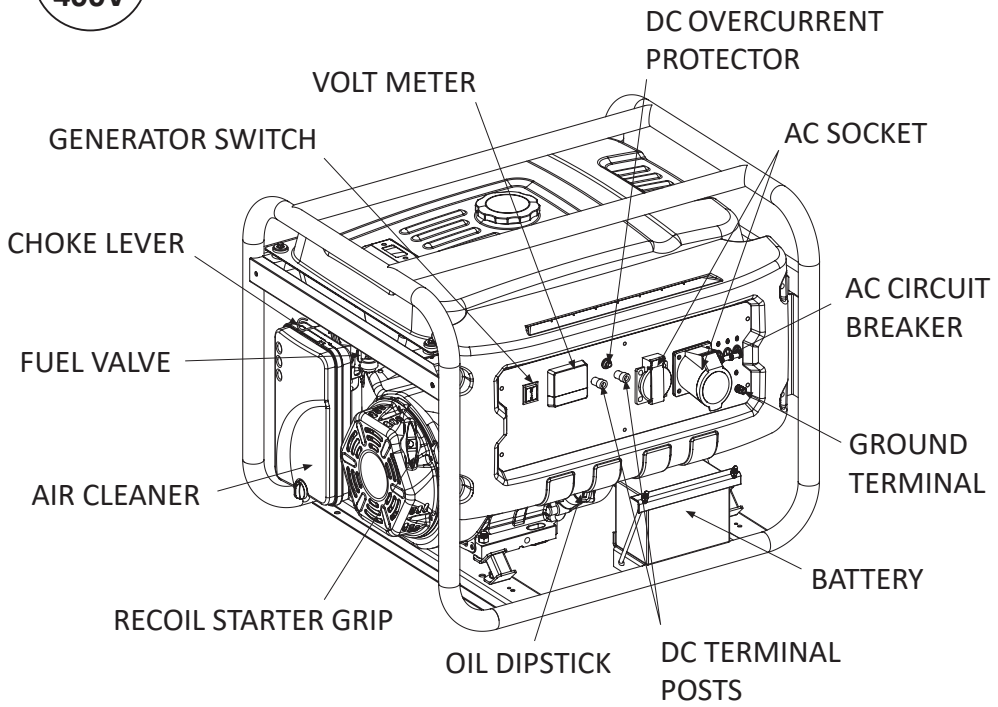
## 2. COMPONENT IDENTIFICATION

### 1. Overview

230V

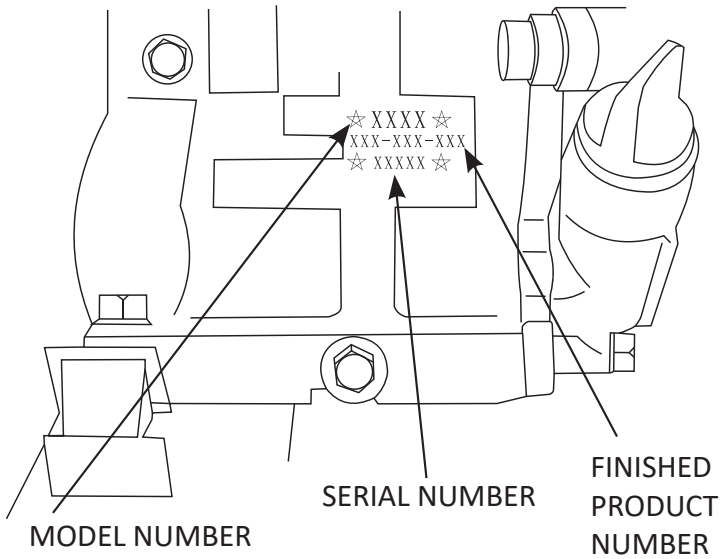


230V  
400V





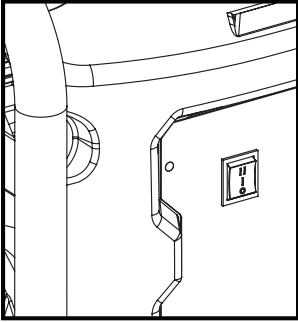
## 2. Engine type & serial number



### 3. STARTING THE GENERATOR

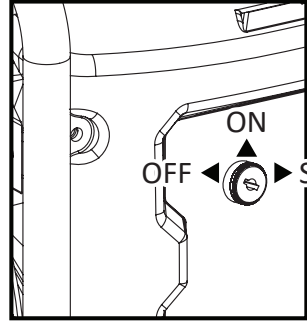
#### 1. Electronic starter

Depending on your generator type:



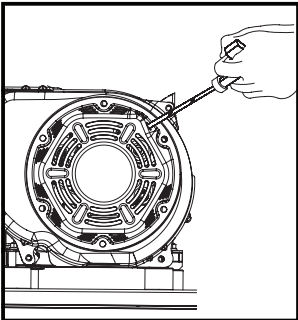
A

II START  
I ON  
0 OFF



B

#### 2. Manual starter



Do not allow the starter grip to snap back against the engine. Return it gently to prevent damage to the starter.

#### 3. Fuel valve

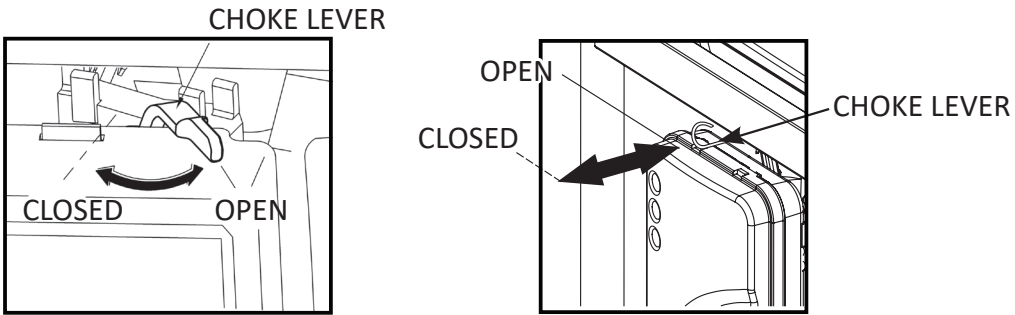
The fuel valve controls fuel flowing from the fuel tank to the carburetor. Switch on the fuel valve before starting the engine. Make sure to turn the lever to the “OFF” position after stopping the engine.



#### 4. Choke lever

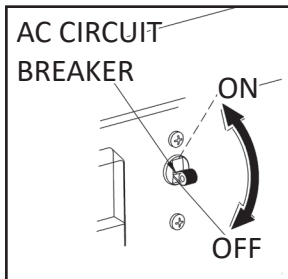
The choke lever is used to provide an enriched fuel mixture when starting a cold engine. If the engine did not run for some time before starting put the lever in the closed position. Then start the engine and when it is running slowly put turn the lever into the default 'open' position.

Depending on your generator type:



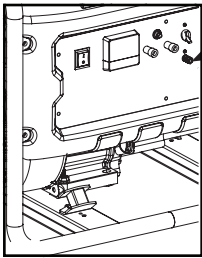
#### 5. AC Circuit breaker

Overload current will automatically switch OFF the circuit breaker to avoid short circuiting. If the circuit breaker is switched OFF automatically, check the load before switching the circuit breaker ON again.



## 6. Ground terminal

The ground terminal is used to reliably ground the whole generator.



GROUND TERMINAL

## 7. Oil Alert System

The oil alert system is especially designed to prevent engine damage caused by an insufficient amount of oil in the crankcase. When the oil level in the crankcase falls below the safe limit, the oil alert system will automatically shut down the engine to avoid damage to the engine. The generator switch will remain in the ON position.

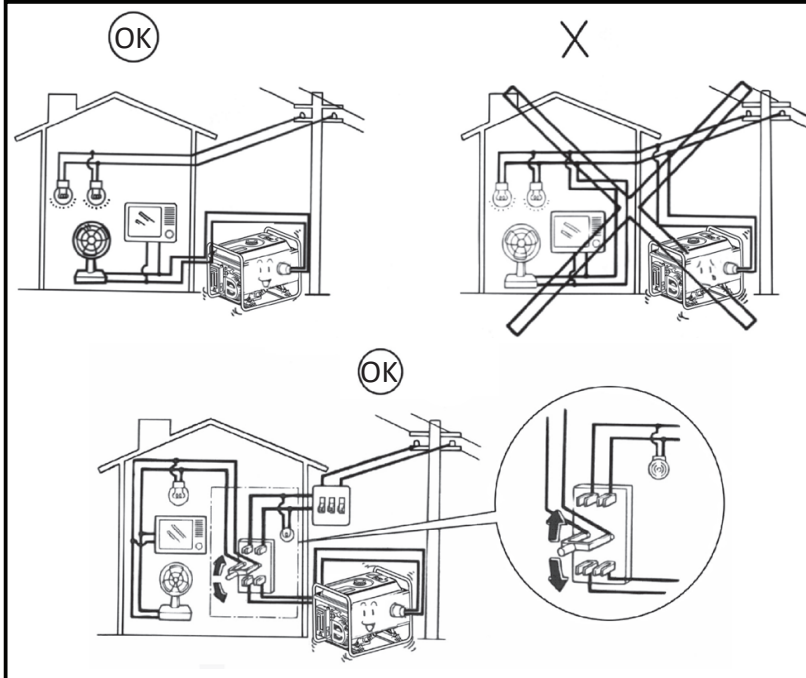
## 4. GENERATOR OPERATION

### GENERATOR OPERATION ENVIRONMENT

- Temperature:  $-15^{\circ}\text{C} \sim 40^{\circ}\text{C}$
- Humidity: Below 95%
- Height above sea level: Below 1,000m  
(If the area of operation is over 1,000m above sea level the output capacity will be lower.)

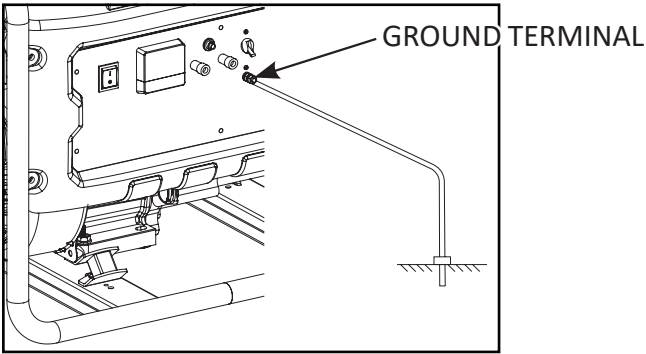
### 1. Connecting to a home power supply

When connecting the generator to a home power supply, the connection must be made by a qualified electrician. After installing, the connection must be carefully checked and tested for safety and reliability. If the generator is not installed correctly it may damage the generator, damage or break connected electrical equipment or cause a fire.



## 2. Generator grounding

To prevent electrical shock from misuse from faulty appliances, the generator should be grounded with an insulated lead.



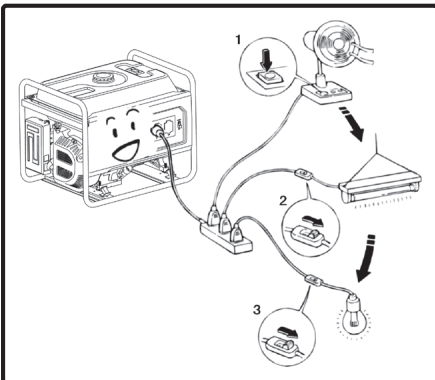
## 3. AC Current

Before starting the generator, make sure that the total power need of all combined loads (resistive, capacitive and inductive) does not exceed the rated power of the generator.









### NOTICE

**Overload operation will greatly shorten generator service life.**

When connecting multiple loads or appliances to the generator, connect the highest load first. Followed by the second highest load, and connect all further loads one by one, each with a lower starting power than the preceding one.



In general, capacitive and inductive loads, especially motor-driven devices have a high peak current when starting. The following table is a reference for when connecting to typical household electric appliances.

Type	Wattage		Typical Device	Examples		
	Start	Rated		Device	Starting	Rated
Incandescent Lamp Heating Device	X 1	X 1	 Incandescent Lamp  TV Set	 Incandescent Lamp 100W	100 VA (W)	100 VA (W)
Fluorescent Lamp	X 2	X 1.5	 Fluorescent Lamp	 Fluorescent Lamp 40 W	80 VA (W)	60 VA (W)
Motor Drive Device	X 3-5	X 2	 Refrigerator  Electric Fan	 Refrigerator 150 W	450-750 VA (W)	300 VA (WA)

#### 4. DC Current

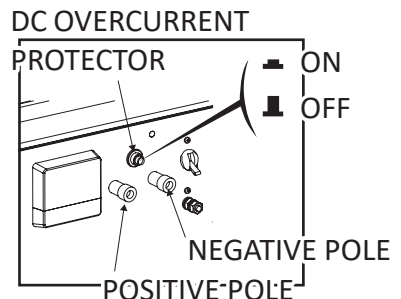
##### DC TERMINALS

The DC terminals are used to provide a power supply for lower-power DC loads and charging other batteries.

The terminals are colored as such: red to identify the positive (+) terminal and black to identify the negative (-) terminal. Load connection method: The load must be connected to DC terminals with the proper polarity (Load's positive to positive DC terminal and load's negative to negative DC terminal).

##### DC OVERCURRENT PROTECTOR

The DC overcurrent protector will automatically shut off when the DC circuit is overloaded or poor connection occurs. If the indicator inside the DC overcurrent protector button pops out, it shows that the DC overcurrent protector has switched off. Wait a few minutes and then push the button in to return to "ON" position.



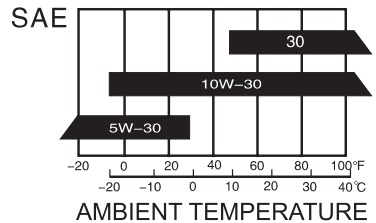
# 5. PRE-OPERATION CHECK

## 1. Engine oil

### NOTICE

Engine oil is a major factor affecting engine performance and service life. Non-detergent and 2-stroke engine oils will damage the engine and are not recommended. Check the oil level before each use with the generator positioned on a level surface with the engine not running.

Recommended engine oil:  
4-stroke gasoline engine oil  
SF under API service classification  
or SAE10W-30 (equivalent to SG class).



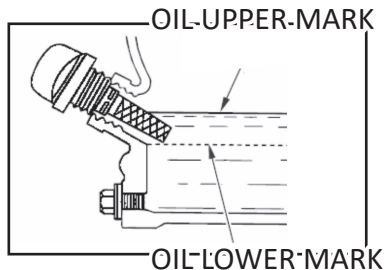
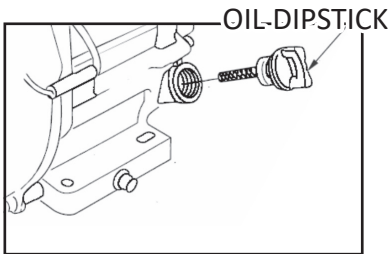
Method of checking the engine oil level:

Remove the oil filler cap and wipe the dipstick to clean it.

Check the oil level by inserting the dipstick into the filler neck without screwing it in.

If the level is low, add the recommended engine oil until oil level can reach the upper mark on the dipstick.

After adding the oil do not forget to reinsert the dipstick and screw it in tight.



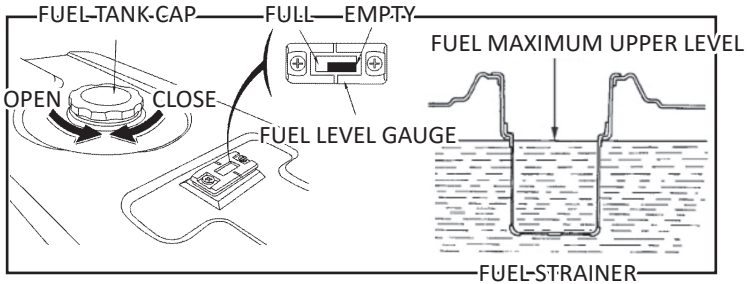


## 2. Fuel

Use gasoline with octane rating  $\geq 90$ .

Never use an oil/gasoline mixture or gasoline containing impurity.

- 1) Check the fuel level gauge.
- 2) Replenish the tank if the fuel level is low. Do not let the fuel level rise above the shoulder of the fuel strainer.
- 3) Refit and screw the fuel tank cap tight after refueling.



## WARNING

- Refuel in a well-ventilated area with the engine stopped. Never smoke or allow flames or sparks in the area where the engine is refueled or where gasoline is stored.
- Do not overfill the fuel tank.
- Avoid repeated or prolonged contact with skin or breathing in of fuel vapor.
- Keep children from contacting fuel.
- Never use an oil/gasoline mixture or gasoline containing impurity.
- Never use stale or contaminated gasoline.
- Avoid getting dirt or water into the fuel tank.

## 6. STARTING THE ENGINE

### 1. Recoil starter

- 1) Remove all the loads from the output side.
- 2) Turn the fuel valve to the “=ON” position.
- 3) Turn the AC circuit breaker to the “OFF” position.
- 4) Turn the choke lever to the “CLOSE” position.

### NOTICE

Do not close the choke when starting the engine in a warm state.

- 5) Turn the generator switch to the “ON” position.
- 6) Pull the starter grip until a resistance is felt, the pull it out briskly.
- 7) Turn the choke lever to the “OPEN” position after the engine is warm.
- 8) Do not use electric devices before setting the circuit breaker to the “ON” position.

### 2. Electronic starter

Turn the generator switch to the electric starting position and hold for a maximum of 5 seconds or less if the engine is started. If starting fails, release the switch and wait for 10 seconds before using it again. If the speed of the starting motor drops fast after holding the switch for some time, it means the battery should be recharged.

## 7. STOPPING THE ENGINE

- 1) Turn the AC circuit breaker to the “OFF” position.
- 2) Turn the generator switch to the “OFF” position.
- 3) Turn the fuel valve to the “OFF” position.

### NOTICE

To stop the engine in an emergency, turn the generator switch to the “OFF” position.

## 8. MAINTENANCE

The engine must be properly maintained to ensure its operation is safe, economical and trouble-free, and to minimize emissions.

In order to keep your gasoline engine in good working condition, it must be periodically serviced. The following maintenance schedule and routine inspection procedures must be carefully followed.

Item		Frequency	Each time	First month or first 20hrs of operation	Thereafter, every 3 months or every 50hrs of operation	Every year or every 100hrs of operation
Engine oil	Check - Refill		<b>X</b>			
	Replace			<b>X</b>	<b>X</b>	
Reduction gear oil (if equipped)	Oil level check		<b>X</b>			
	Replace			<b>X</b>	<b>X</b>	
Air filter element	Check		<b>X</b>			
	Clean			<b>X</b>		
	Replace				<b>X</b>	
Deposit cup (if equipped)	Clean					<b>X</b>
Spark plug	Check - adjust					<b>X*</b>
Spark arrester	Clean				<b>X</b>	
Idling (if equipped)**	Check - adjust					<b>X</b>
Valve clearance **	Check - adjust					<b>X</b>
Fuel tank & fuel filter **	Clean					<b>X</b>
Fuel line	Check	Every 2 years (change if necessary)				
Cylinder head, piston	Clean up carbon **	Every 250hrs				

\* These items should be replaced if replacement needed.

\*\* These items should be maintained and repaired by our authorized dealer, unless the owner has appropriate tools and is proficient with mechanical maintenance.

## NOTICE

- If the generator frequently operates under high temperature or heavy load, change the oil every 25 hrs.
- If the engine frequently operates in dusty or other severe circumstances, clean the air filter every 10 hrs; If necessary, change the air filter element every 25 hrs.
- When the maintenance period is described as either a period or a specific amount of hours, keep to whichever comes first.
- If you have missed the scheduled time to maintain your engine, do it as soon as possible.

## WARNING

Stop the engine before servicing. Put the generator on a level surface and remove the spark plug cap to prevent the engine from starting. Never run the engine in a poorly ventilated room or other enclosed area, be sure to keep good ventilation in the working area. The exhaust from the engine may contain poisonous CO, inhalation can cause shock, unconsciousness and even death.

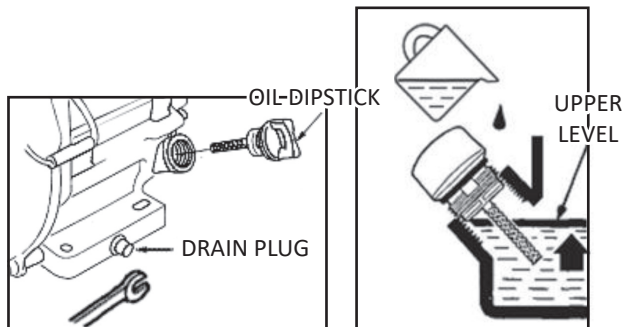
### 1) Engine oil change

Drain the oil while the engine is warm to ensure complete and rapid draining.

- 1) Remove the oil dipstick and drain plug to drain the oil.
- 2) Reinstall the drain plug, then tighten the plug securely.
- 3) Refill oil and check the oil level.

Oil capacity:

5,5 kW	1L
6,0 kW	1L
8,0 kW	1.3L



## **WARNING**

Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.

Please dispose of used engine oil in a manner that is compatible with the environment. We suggest you use a sealed container to take the used oil to your local service station or recycling center for reclamation. Do not throw it in the trash or pour it on the ground.

## 2) Air cleaner service

A dirty air cleaner will restrict air flow into the carburetor. To prevent carburetor malfunction, service the air cleaner regularly. Service more frequently when operating the generator in extremely dusty areas.

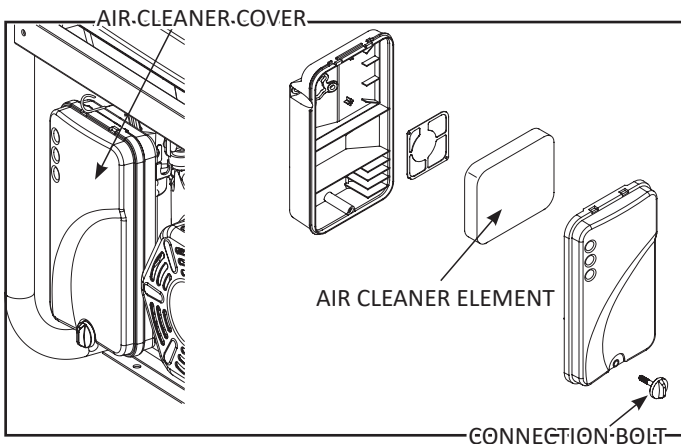
### WARNING

Using gasoline or flammable solvent to clean the filter element can cause a fire or explosion. Use only soapy water or a nonflammable solvent.

### NOTICE

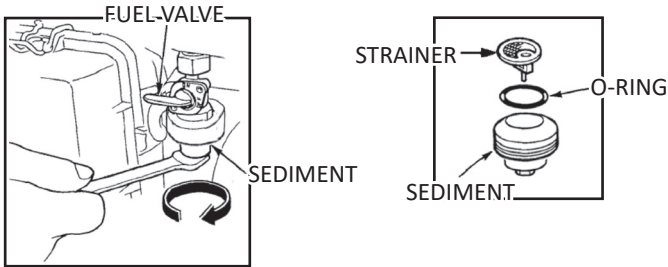
Never run the generator without the air cleaner. It will lead to rapid wear of the engine.

- 1) Open the air cleaner clip and open the air cover. Check the air cleaner element to see if it is complete and clean.
- 2) If the air cleaner element is dirty, please clean it:  
Wash the air cleaner element in a solution of household detergent and warm water, then rinse thoroughly or wash in nonflammable or high flash point solvent. Drop a few drops of air filter oil on the element and squeeze out the excess.
- 3) Reinstall the air cleaner element and the cover.



### 3) Fuel sediment cup cleaning

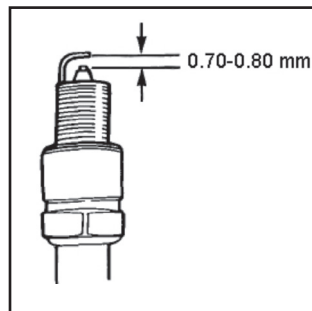
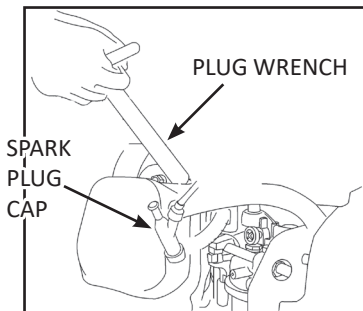
- 1) Turn the fuel valve to the "OFF" position. Remove the sediment cup, o-ring and strainer according to the arrow direction.
- 2) Clean the sediment cup, o-ring and strainer in nonflammable or high flash point solvent.
- 3) Reinstall the O-ring and strainer and screw back the sediment cup.
- 4) Turn the fuel valve "ON" and check for leaks.



### 4) Spark plug service

Recommended spark plugs: F6TC, E7RTC(1kW) or other equivalents.  
*Use a spark plug in a suitable heat range.*

- 1) Remove the spark plug cap.
- 2) Use a spark plug wrench to remove the spark plug.
- 3) Visually inspect the spark plug to see if the insulator is cracked, if so, replace it with a new spark plug.
- 4) Measure the plug gap with a feeler gauge. Correct as necessary by carefully bending the side electrode. The gap should be 0.7-0.8mm.
- 5) Check the spark plug washer to see if it is good.
- 6) Reinstall the spark plug, tighten it with the plug wrench and impact the washer. Reinstall the spark plug cap accurately.



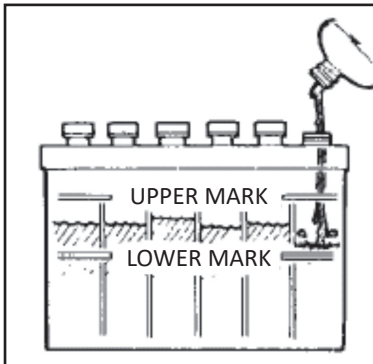


## 5) Battery

### NOTICE

Do not connect the battery positive and negative poles reversely (pay attention to the + and - markings). When connecting, first connect the positive pole, then the negative pole. When disconnecting, first disconnect the negative pole, then the positive pole. If disregarded this may cause serious damage to the generator and/or the battery itself.

Check the electrolyte inside each battery cell to see if the fluid is kept between the lower and upper mark. If the fluid level is under the lower mark, screw off the cap and add distilled water up to the upper mark. The fluid in each cell should be maintained at approximately the same level.



### WARNING

If the battery maintenance procedures are not followed correctly there is a risk of combustion or explosion. The battery may release inflammable gas. Refill the battery in a well ventilated area and do not overflow the cells.

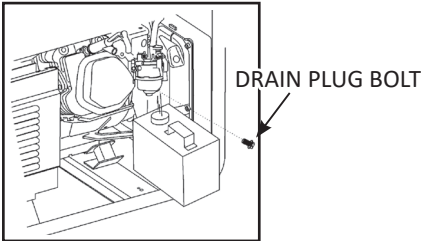
## 9. STORAGE

### WARNING

In order to avoid burning or fire due to contact with any hot part of the generator, do not pack and store the generator before it is cooled down.

*If the generator needs to be stored for longer periods, make sure the storage area is clean and dry.*

- 1) Drain the remaining fuel from the generator. Clean the strainer, o-ring and sediment, then refit them well. Drain fuel out of the carburetor by loosening the drain bolt, then refit it and screw the carburetor bolt tight.



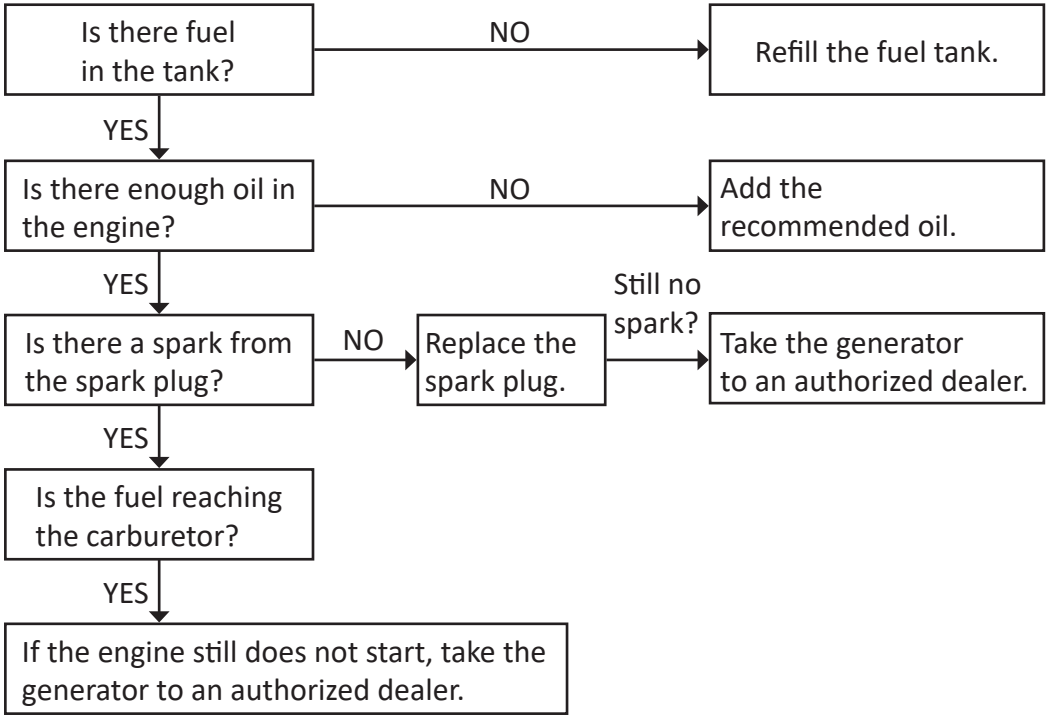
### WARNING

Gasoline and gasoline vapors are extremely flammable and explosive under certain conditions. Drain fuel in a well ventilated area with the engine stopped. Never smoke or allow flames or sparks in the area during this procedure.

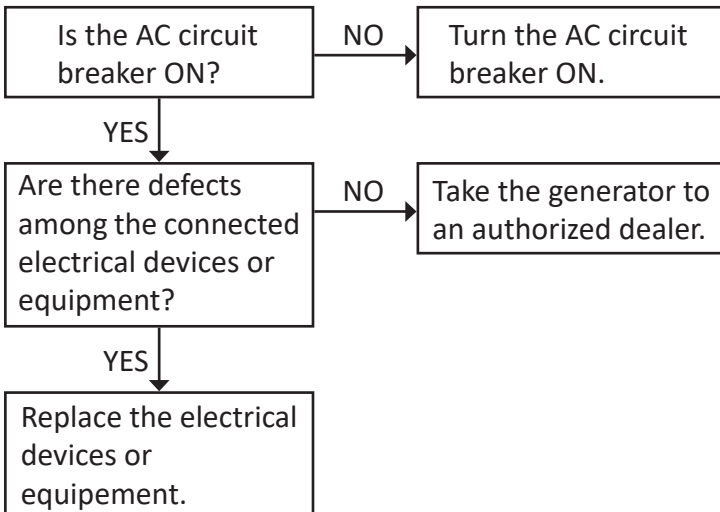
- 2) Screw the oil dipstick off and screw the drain bolt off the crankcase to completely drain the oil out. Then screw back the drain bolt and add fresh oil to the upper mark, finally refit the oil dipstick well.
- 3) Remove the spark plug, and pour about a tablespoon of clean engine oil into the cylinder. Crank the engine several revolutions to distribute the oil, then reinstall the spark plug.
- 4) Slowly pull the starter grip until resistance is felt. Let the intake and exhaust valves in "CLOSE" position.
- 5) Store the generator in a clean area.

# 10. TROUBLESHOOTING

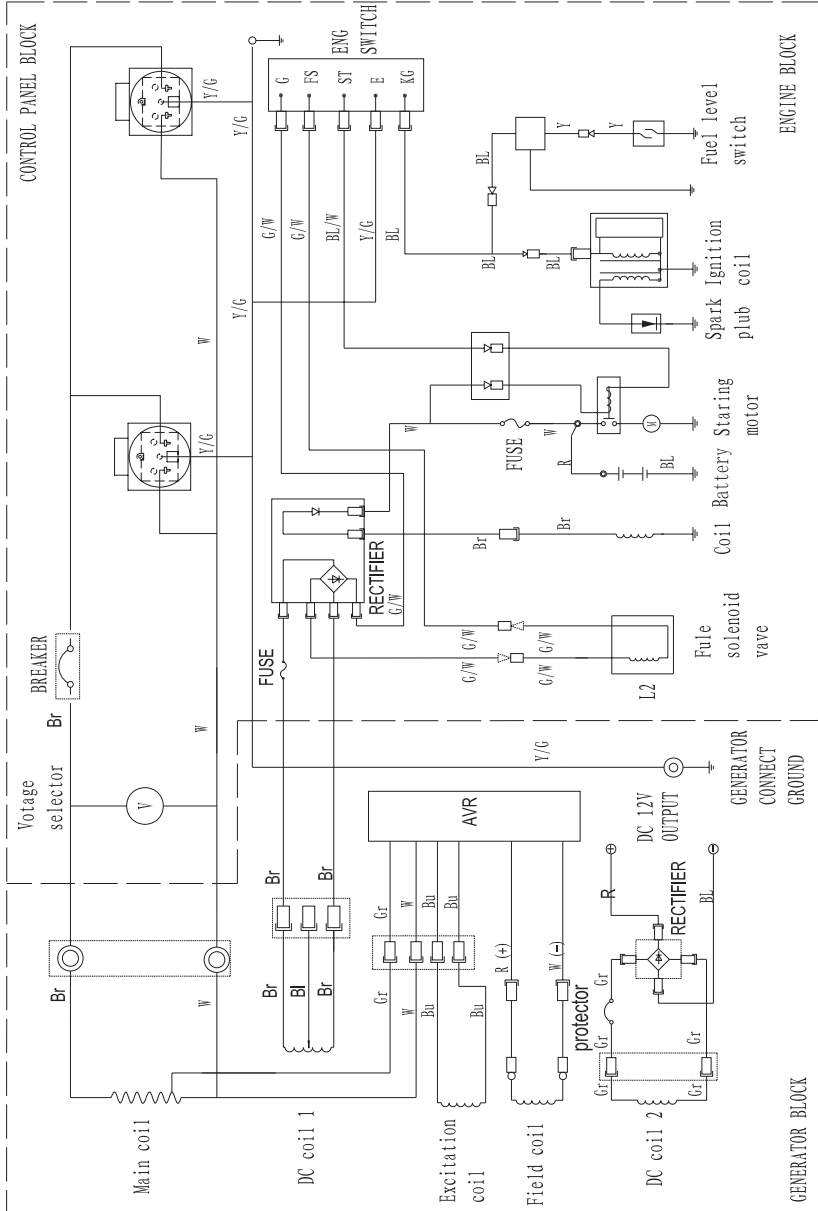
## Engine unable to start:



## No power supply:



# 11. WIRING DIAGRAM



BL	Black	R	red
Y	yellow	W	white
BU	blue	Br	Brown
G	green	Gr	Gray

ENG SWITCH

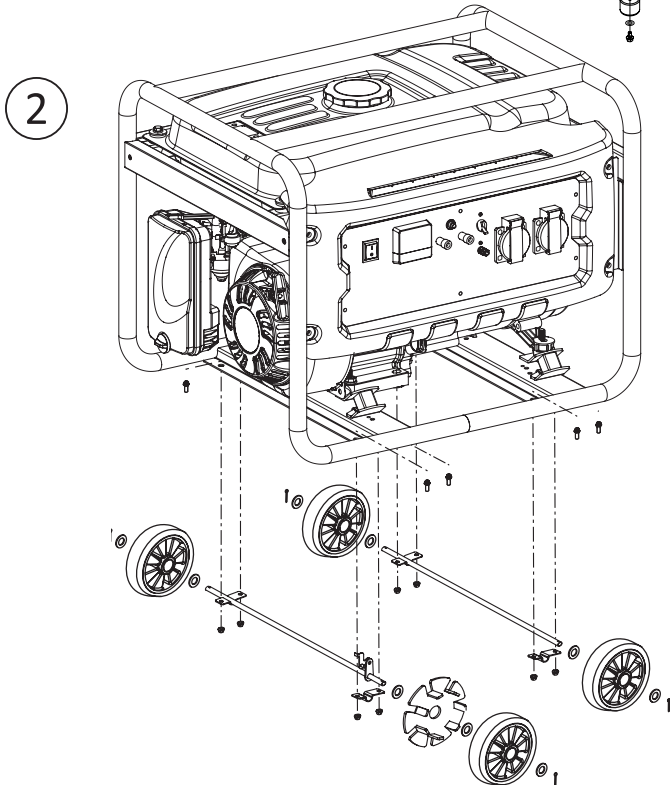
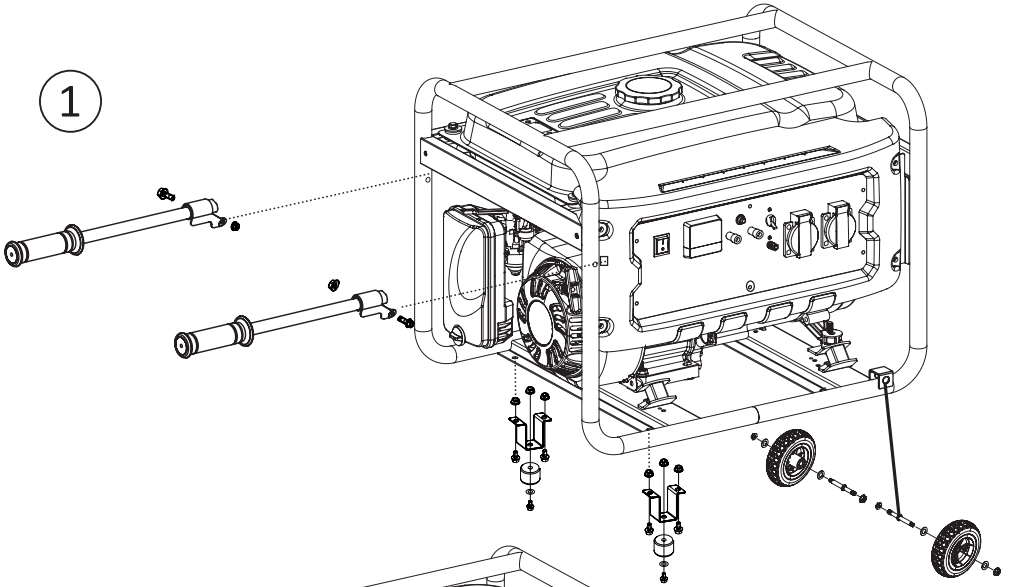
EG	E	ST	EG	FS
OFF	○	○	○	○
ON	○	○	○	○
START	○	○	○	○

## 12. SPECIFICATIONS

	Item	DO5500E	DO6000E	DO8500E
Engine	Engine	R420	R420	R500
	Engine type	Single cylinder, 4-Stroke, Forced air cooling, OHV		
	Displacement (cc)	420	420	500
	Igniting mode	Transistorized magneto		
	Fuel Volume (L)	25	25	25
	Fuel consumption (g/kw.h)	≤374	≤374	≤374
	Continuing Time (hr)	7	7	5
	Oil capacity (L)	1	1	1.3
Generator	Voltage (DC) (V)	12		
	Current (DC) (A)	8.3		
	Rated Frequency (Hz)	50		
	Rated Voltage (V)	110,120,220,230,240,110/220,115/230		
	Rated Output Power (kW)	5.0	5.5	8.0
	Maximum Output Power (kW)	5.5	6.0	8.5
Generator set	Length (mm)	684		
	Width (mm)	562		
	Height (mm)	559		
	Net weight (kg)	83	85	96
	Phase	Single	Single	Single / Three fase
Accessoire • = Available	Large Air Cleaner	•	•	•
	Large Muffler	•	•	•
	Large Fuel Tank	•	•	•
	Fuel Gauge	•	•	•
	Voltmeter	•	•	•
	Automatic Voltage Regulator (AVR)	•	•	•
	Oil Alert System	•	•	•
	Non-fuse Breaker	•	•	•
	Electric Starting Accessory	•	•	•

# 13. WHEELS (OPTIONAL)

Depending on your generator type:



# 14. DECLARATION OF CONFORMITY

# DORLY



## DECLARATION OF CONFORMITY DO5500E / DO6000E / DO8500E - GASOLINE GENERATOR

- (EN) We declare under our sole responsibility that this product is in conformity with directive 2006/42/EC of the European parliament and of the council of May 17, 2006 on the restriction of the use of certain hazardous substances in electrical and electronic equipment is in conformity and accordance with the following standards and regulations:
- (DE) Der Hersteller erklärt eigenverantwortlich, dass dieses Produkt der Direktive 2006/42/EC des Europäischen Parlaments und des Rats vom 17. Mai 2006 über die Einschränkung der Anwendung von bestimmten gefährlichen Stoffen in elektrischen und elektronischen Geräten entspricht. den folgenden Standards und Vorschriften entspricht:
- (NL) Wij verklaren onder onze volledige verantwoordelijkheid dat dit product voldoet aan de conform Richtlijn 2006/42/EC van het Europees Parlement en de Raad van 17 juni 2006 betreffende beperking van het gebruik van bepaalde gevaarlijke stoffen in elektrische en elektronische apparatuur en in overeenstemming is met de volgende standaarden en reguleringen:
- (FR) Nous déclarons sous notre seule responsabilité que ce produit est conforme aux standards et directives suivants: est conforme à la Directive 2006/42/EC du Parlement Européen et du Conseil du 17 mai 2006 concernant la limitation d'usage de certaines substances dangereuses dans l'équipement électrique et électronique.
- (ES) Declaramos bajo nuestra exclusiva responsabilidad que este producto cumple con las siguientes normas y estándares de funcionamiento: se encuentra conforme con la Directiva 2006/42/EC del Parlamento Europeo y del Consejo de 17 de mayo de 2006 sobre la restricción del uso de determinadas sustancias peligrosas en los equipos eléctricos y electrónicos.
- (IT) Dichiariamo, sotto la nostra responsabilità, che questo prodotto è conforme alle normative e ai regolamenti seguenti: è conforme alla Direttiva 2006/42/EC del Parlamento Europeo e del Consiglio dell'17 maggio 2006 sulla limitazione dell'uso di determinate sostanze pericolose nelle apparecchiature elettriche ed elettroniche.

EN ISO 8528-13, EN 60204-1, 2006/42/EC, 2014/35/EU

Erp, 01-02-2023

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C.E.O

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