



|                                                                                                                                                                                                                    |                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 说明书材质要求： <b>105g 有光铜版纸</b>                                                                                                                                                                                         | 说明书成品尺寸： <b>105*143mm</b>                                                                                                                                              |
| 第一：专色用 <b>6级防晒油墨</b> +CMYK油墨要求：<br>1.PANTONE137C专色油墨（ <b>专色用6级防晒油墨</b> ）：<br>如果自己配色，油墨配比为：酒联中黄（ <b>防晒</b> ）2000g<br>酒联金红（ <b>防晒</b> ）225g<br>2.C色油墨：酒联天蓝墨<br>3.M色油墨：酒联金红墨<br>4.Y色油墨：pantone123C专色油墨<br>5.K色油墨：酒联黑墨 | 第二：特别注意：<br>1.印刷时看样请参考我司提供的实物样品颜色。不得偏色<br>2.137C的专色 <b>不得</b> 参考C=0,M=35,Y=90,K=0对应的四色<br>色谱颜色来看样印刷<br><div><div></div> Pantone 137C<br/><div></div> Black（两色印刷）</div> |
| 折叠方式： <b>风琴折</b> （ <small>20P以下用风琴折</small> ）/ <b>骑马钉</b> （ <small>20P以上用骑马钉</small> ）<br>特殊情况：16P/20P：风琴折 + 对折                                                                                                    | 备注：                                                                                                                                                                    |

**特别注意：此页内容不印刷**

风琴折 + 对折 页面顺序

16P 页面顺序

|    |    |    |    |
|----|----|----|----|
| 9  | 10 | 11 | 封面 |
| 12 | 13 | 14 | 封底 |

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

20P 页面顺序

|    |    |    |    |    |
|----|----|----|----|----|
| 11 | 12 | 13 | 14 | 封面 |
| 15 | 16 | 17 | 18 | 封底 |

|   |   |   |   |    |
|---|---|---|---|----|
| 1 | 2 | 3 | 4 | 5  |
| 6 | 7 | 8 | 9 | 10 |

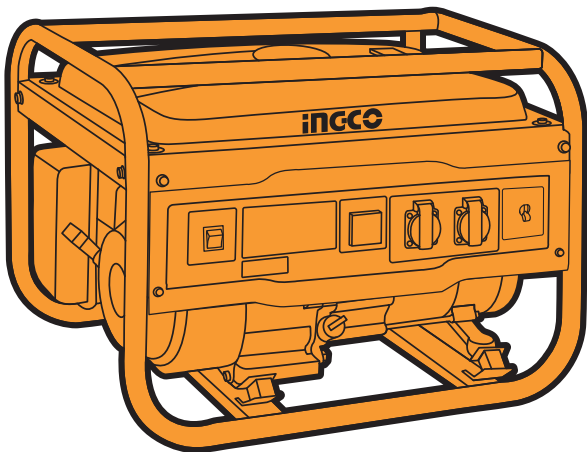
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| 更改记录 | 1. 新风格   |            |     | 1. 封面封底更新 |           |     | 1. 增加P17警示内容 |          |      |
|      | 0324.V06 | 2024.03.08 | ZY  | 0924.V07  | 2024.9.20 | ZRR | 0826.V08     | 2026.8.4 | zara |
|      | 版本号      | 日期         | 设计师 | 版本号       | 日期        | 设计师 | 版本号          | 日期       | 设计师  |

# ingco®

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**PRODUCT  
MANUAL**

## GASOLINE GENERATOR



**GE30005 UGE30005 GE25005-5P**  
**GE35005-5P GE35005-15P GE45005-5P**  
**GE30005xy UGE30005xy**  
**x(blank,-1,-1S,-4,-6,-7,-8,-9,-14,-15,-16,-18,-19,-158)**  
**y(blank,S,N)**





## GENERAL SAFETY WARNINGS

### DANGER

#### **Electrocution hazard - Electricity can cause DEATH or SERIOUS INJURY**

- *Do not use bare wire to connect power supply to electrical equipment, use a plug that meets local regulations.*
- *During generator operation, do not touch exposed wires.*
- *During generator operation, keep children a safe distance from the generator unit.*
- *Do not use the generator unless it is fully assembled as instructed in this manual.*
- *Properly ground the generator and verify grounding is in place before each use. Grounding regulations vary by location, consult a qualified electrician for verification.*
- *Accessories including cables and plug must not be defective. Electric shock prevention hinges on the breaker. If you renew the breaker use a breaker with the same rating and performance features, contact your local authorized service agent.*

### DANGER

#### **Fuel used by the generator is combustible, as this equipment generates high temperature, this causes a fire risk in some circumstances, such as refueling.**

- *It is strictly prohibited to add fuel while the generator is operating;*
- *When adding fuel, keep far away from any ignition source, and NO smoking;*
- *When adding fuel, pay attention not to spill fuel on the equipment, if fuel is spilled clean it immediately, and only start it up when the spilled fuel has evaporated completely;*
- *During operation, be sure there are no combustibles within a 2m range.*
- *In case of long-term nonuse, make sure you use a fuel stabilizer or empty the fuel tank and bowl.*

### **Electronic safe**

*Please do not keep emergency keys in your safe!*

*Dear valued customer:*

*Thank you for choosing our products! You've taken an important Step in organizing and protecting your most valued possessions. Every series of our safes is*

*professionally made and designed to provide safety. Please take time to read and familiarize yourself with the proper operating procedures of your new safe presented on the following pages. Again, thank you for choosing our products!*

**⚠ DANGER**

**This equipment contains high speed revolving parts, which may cause injury.**

- *During generator operation, avoid coming into contact with any revolving parts.*
- *During generator operation, observe surroundings, make sure there is no risk to the generator, other people and nearby equipment.*
- *During generator operation, do not lift or re-position. Turn the generator off ensuring it has come to a complete stop.*

**⚠ ATTENTION**

**Operating requirements.**

- *Do not place weight on the equipment.*
- *The wheel is adopted for convenience of equipment moving, do not use it in long distance, otherwise it will be damaged.*
- *Do not exceed rating power of the equipment in operation; otherwise, its service life will be shortened. Power of common household appliances is shown on maintain page in details.*
- *Maintain the equipment based on requirements so as to prolong its service life, refer to maintain page for details.*
- *Operate and store the generator in a dust free area this prevents dust entering inside of the equipment which reduces its working life.*

## THE SYMBOLS IN INSTRUCTION MANUAL

Some of following symbols are used in the machine or the manual. To understand their meanings will make it easy and safe for you in operation.

| Symbol                                                                              | Name                      | Meaning                                                                                        |
|-------------------------------------------------------------------------------------|---------------------------|------------------------------------------------------------------------------------------------|
| <b>V</b>                                                                            | Volt                      | Voltage unit                                                                                   |
| <b>A</b>                                                                            | Ampere                    | Current unit                                                                                   |
| <b>Hz</b>                                                                           | Hertz                     | Frequency unit (1Hz=60 r/min)                                                                  |
| <b>W</b>                                                                            | Watt                      | Power unit                                                                                     |
| <b>RPM</b>                                                                          | Revolution per minute     | Speed unit                                                                                     |
| <b>PF</b>                                                                           | Power factor              | Generator efficiency                                                                           |
| <b>G1</b>                                                                           | Performance rate          | Performance rate                                                                               |
|    | Read Instructions         | Read Instructions                                                                              |
|    | CE conformity.            |                                                                                                |
|    | Electrocution risk        | Indicate that there is an electrified body here, pay attention to safety.                      |
|    | Electric Shock            | This is an electric device, failure to observe the indication may result in an electric shock. |
|   | Safety Warning            | Risk of harm in the case of not following instructions.                                        |
|  | Electricity, Do Not Touch | The device produces electricity, do not touch during operation.                                |
|  | Fire                      | High temperature generated from operation may cause fire, so operate it with caution.          |

|                                                                                   |                |                                                                                                             |
|-----------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------|
|  | Explosion      | If the fuel tank is exposed to high temperature or open fire it may explode.                                |
|  | Fuel           | Fuel symbol.                                                                                                |
|  | Grounding      | Consult an electrician to determine grounding. Make sure the generator is safely grounded before operation. |
|  | Water exposure | Do not use a plug or electric device on rainy days or if they are wet.                                      |
|   | Engine oil     | Engine oil symbol and the specification is based on maintain page.                                          |

**ADDITIONAL SAFETY WARNING**** DANGER**

Use outdoors only, exhaust gas released from the equipment contains Carbon Monoxide (CO), which cannot be seen or smelt. Excessive inhalation of CO may cause a loss of consciousness and may claim life in extreme circumstances.

** WARNING**

Keep the generator clean, remove any gasoline or oil spills on or around the generator.

** WARNING**

Do not use this generator if exposed to rain or if wet, and store in an enclosed area when not in use.

** DANGER**

Do not connect the generator unit with mains supply or other power sources, use it alone.

** WARNING**

Properly ground the generator and verify grounding is in place before each use.

** WARNING**

DO NOT touch HOT surface or you may be injured or suffer burns.

There is the warning decal on the machine to remind you of the safety regulations.

**⚠ WARNING**



**You will be killed or seriously hurt if you do not follow the operator's manual instructions.**



**Generator is a potential source of electric shock. Do not expose to moisture, rain, or snow. Do not operate with wet hands or feet.**



**Failure to properly ground generator can result in electrocution, especially if the generator is equipped with a wheel kit.**



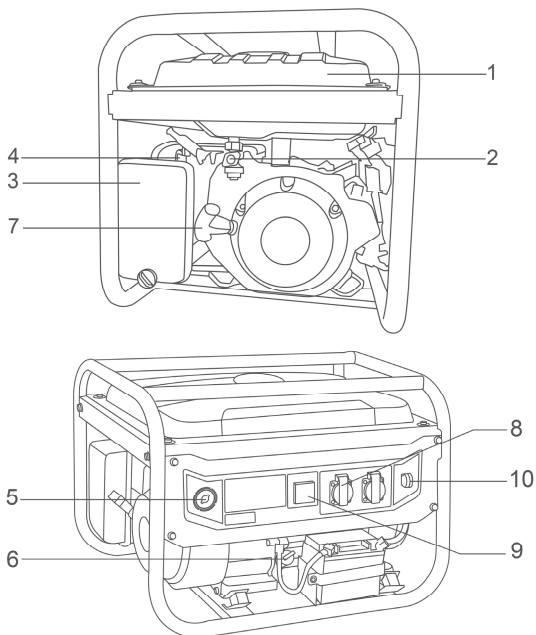
**Exhaust contains poisonous carbon monoxide gas that can cause unconsciousness or DEATH. Operate in well ventilated, outdoor areas away from open windows or doors.**



**Risk of fire. Do not add fuel while the product is operating.**



**Do not expose to rain or use in damp locations.**

**SPECIFICATIONS**

1. Fuel tank
2. Fuel valve
3. Air filter cover
4. Choke lever
5. Engine switch

6. Oil filter plug
7. Recoil starter handle
8. AC socket
9. Voltmeter
10. AC circuit breaker

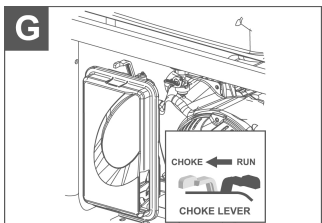
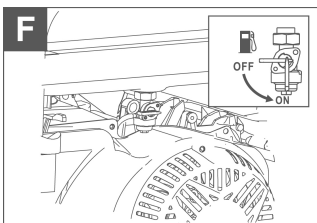
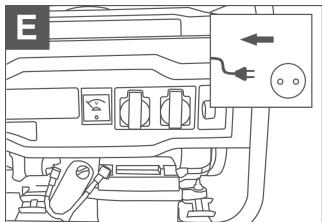
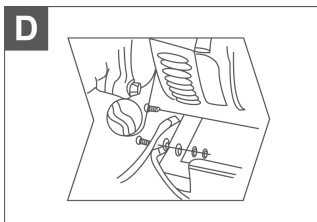
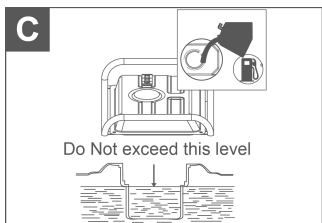
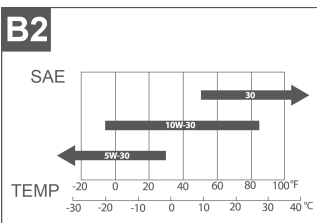
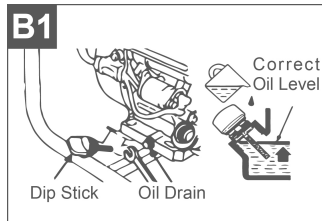
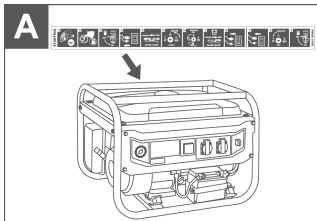
## Technical specifications

| Model No.                  | GE30005<br>GE30005-4<br>GE30005-6<br>GE30005-7<br>GE30005-8<br>GE30005S<br>GE30005-9<br>GE30005N | GE30005-1<br>GE30005-14<br>GE30005-16<br>GE30005-18<br>GE30005-1S<br>GE30005-19 | UGE30005               |
|----------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|------------------------|
| Rated AC voltage           | 220-240V~                                                                                        | 220-240V~                                                                       | 110-120V~<br>220-240V~ |
| Rated frequency            | 50 Hz                                                                                            | 50 Hz                                                                           | 60 Hz                  |
| Phase                      | Single                                                                                           | Single                                                                          | Single                 |
| Max.AC output              | 2.8kW                                                                                            | 2.8kW                                                                           | 3.0kW                  |
| Rated AC output            | 2.5kW                                                                                            | 2.5kW                                                                           | 2.8kW                  |
| Max.AC current             | 12.7                                                                                             | 12.7                                                                            | 25/13                  |
| Rated AC current           | 11.3                                                                                             | 11.3                                                                            | 25.4/12.7              |
| Voltage regulation         | AVR                                                                                              | AVR                                                                             | AVR                    |
| Engine max. output         | 7.0                                                                                              | 7.0                                                                             | 7.0                    |
| Displacement               | 210                                                                                              | 210                                                                             | 210                    |
| Cooling system             | Air-cooled                                                                                       | Air-cooled                                                                      | Air-cooled             |
| Starting system            | Recoil                                                                                           | Recoil+Electric                                                                 | Recoil                 |
| Fuel tank capacity         | 15L                                                                                              | 15L                                                                             | 4Gal                   |
| Continuous operation hours | 10                                                                                               | 10                                                                              | 10                     |

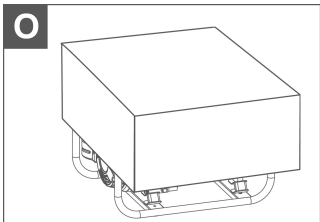
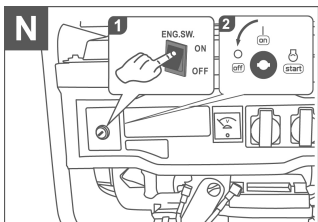
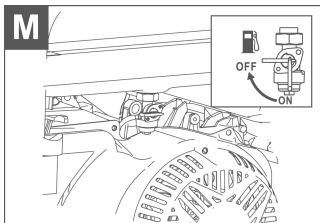
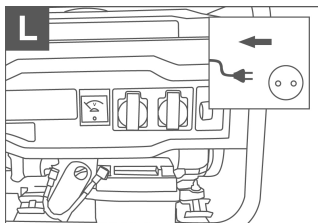
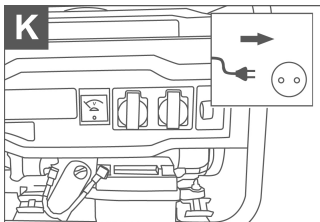
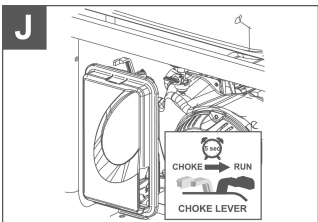
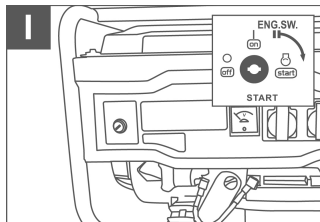
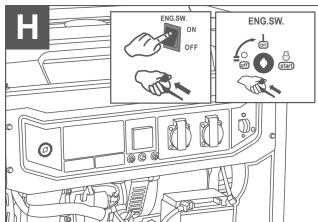
| Model No.                     | UGE30005-1             | GE30005-5<br>GE30005-58 | GE30005-15<br>GE30005-158 |
|-------------------------------|------------------------|-------------------------|---------------------------|
| Rated AC voltage              | 110-120V~<br>220-240V~ | 220-240V~               | 220-240V~                 |
| Rated frequency               | 60 Hz                  | 60 Hz                   | 60 Hz                     |
| Phase                         | Single                 | Single                  | Single                    |
| Max.AC output                 | 3.0kW                  | 3.0kW                   | 3.0kW                     |
| Rated AC output               | 2.8kW                  | 2.8kW                   | 2.8kW                     |
| Max.AC current                | 25/13                  | 13                      | 13                        |
| Rated AC current              | 25.4/12.7              | 12.17                   | 12.2                      |
| Voltage regulation            | AVR                    | AVR                     | AVR                       |
| Engine max.<br>output         | 7.0                    | 7.0                     | 7.0                       |
| Displacement                  | 210                    | 210                     | 210                       |
| Cooling system                | Air-cooled             | Air-cooled              | Air-cooled                |
| Starting system               | Recoil+Electric        | Recoil                  | Recoil+Electric           |
| Fuel tank capacity            | 4Gal                   | 15L                     | 15L                       |
| Continuous<br>operation hours | 10                     | 10                      | 10                        |

| Model No.                  | GE25005-5P | GE35005-5P | GE35005-15P     | GE45005-5P |
|----------------------------|------------|------------|-----------------|------------|
| Rated AC voltage           | 220-240V~  | 220-240V~  | 220-240V~       | 220-240V~  |
| Rated frequency            | 60 Hz      | 60 Hz      | 60 Hz           | 60 Hz      |
| Phase                      | Single     | Single     | Single          | Single     |
| Max.AC output              | 2.5kW      | 3.3kW      | 3.3kW           | 4.5kW      |
| Rated AC output            | 2.3kW      | 2.8kW      | 2.8kW           | 4.0kW      |
| Max.AC current             | 10.9       | 14.3       | 14.3            | 19.6       |
| Rated AC current           | 10         | 12.7       | 12.7            | 18.1       |
| Voltage regulation         | AVR        | AVR        | AVR             | AVR        |
| Engine max. output         | 7.0        | 7.0        | 7.0             | 7.5        |
| Displacement               | 212        | 210        | 210             | 223        |
| Cooling system             | Air-cooled | Air-cooled | Air-cooled      | Air-cooled |
| Starting system            | Recoil     | Recoil     | Recoil+Electric | Recoil     |
| Fuel tank capacity         | 15L        | 15L        | 15L             | 15L        |
| Continuous operation hours | 10         | 10         | 10              | 10         |

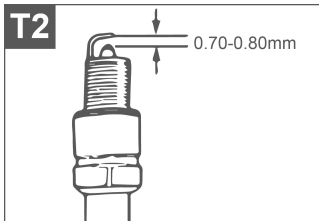
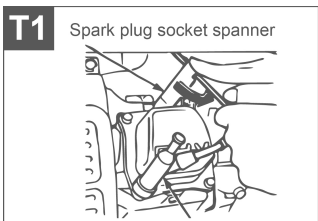
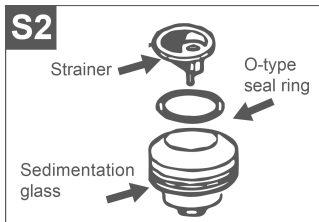
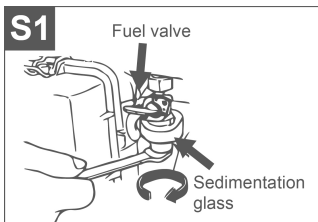
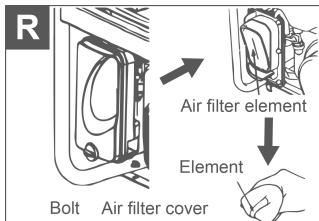
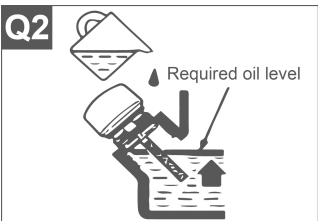
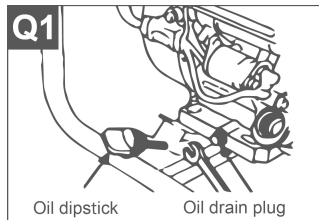
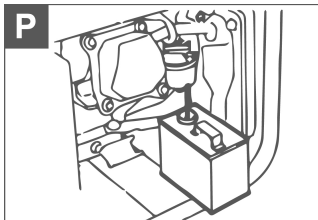
# OPERATION PICTURE



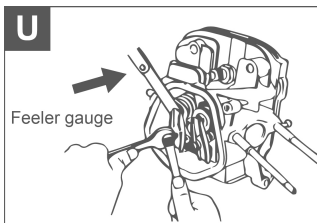
# OPERATION PICTURE



# OPERATION PICTURE



## OPERATION PICTURE



## OPERATION

### **Know your generator**

The safe use of this generator requires an understanding of the information provided in this operator's manual as well as a knowledge of the project you are attempting. Before use of this generator, familiarize yourself with all operating features and safety rules.

#### **Ac circuit breaker**

The circuit breakers are provided to protect the generator against electrical overload. The circuit breaker may be reset by pressing the circuit breaker reset button.

#### **Air filter**

The air filter helps to limit the amount of dirt and dust drawn into the unit during operation.

#### **Choke lever**

The choke lever is used when starting the engine.

#### **Fuel tank**

The fuel tank has a capacity of 15 liters / 25 liters

#### **Fuel valve**

Fuel flow from the fuel tank to the engine is turned on and off using the fuel valve. Turn fuel off after use.

#### **Ground terminal**

The ground terminal is used to assist in properly grounding the generator to help protect against electrical shock. Consult with a qualified local electrician for grounding requirements in your area.

#### **Low oil shut down protector**

The low oil sensor causes the engine to stop if the level of oil in the crankcase is insufficient.

#### **Oil cap/dipstick**

Remove the oil fill cap to check and add oil to the generator when necessary.

#### **Oil drain plug**

When changing the engine oil, unscrew and remove the oil drain plug to allow old engine oil to be drained.

#### **Recoil starter grip**

The recoil starter grip is used to start the generator's engine manually.

## **Operating guide (see Figure A)**

The operational steps are pasted above the fuel tank, please operate as per the instructions.

### **Unit grounding**

Shift the machine outdoors, use the grounding terminal connection wire to ground to earth. One end of the wire is pressed below the butterfly nut on the unit, screw it up tightly, and the other end is connected with the metal rod that is inserted into the ground.

## **Pre-operational (see Figure B)**

### **Add engine oil**

Unscrew the oil dip stick, add engine oil SAE10W/30 (oil requirements may vary if operating in extreme temperatures, refer above table). Fill the oil to the top of the thread (indicated as "Correct Oil Level" above).

If oil is spilt wipe off machine to avoid fire hazard and from the ground to avoid slipping.

## **Fill fuel oil (see Figure C)**

Open the fuel fill cap and fill with a Ethanol Free 91 octane gasoline (95 and 98 octane may be used). The fuel level position will be displayed on the indicator opposite the fuel cap. When filling the tank the maximum fuel position shall not exceed the inner strainer of the Fuel tank as indicated above.

### **WARNING**

**keep away from any possible ignition source when filling gasoline; do not fill the fuel tank while the generator is in operation.**

### **Connect electric battery (electrical starting only) (see Figure D)**

Connect the battery, red for positive terminal and green for the negative terminal and make sure you tighten the nuts. Pay attention and avoid contact between positive and negative terminal to eliminate the chance of short circuit. Make sure you place the rubber protective covers over the terminals.

## **Starting the engine**

1. Unplug all loads from the generator. (see Figure E)
2. Turn the Fuel valve to the ON position. (see Figure F)
3. Move the choke lever to the CHOKE position. (see Figure G)

**⚠ WARNING**

**If engine has been operating and is being restarted leave the choke lever in the RUN position.**

**4. Turn the switch on the control panel to ON.**

- a. For the manual start generator by pulling the recoil starting grip until the engine runs. (see Figure H)
- b. The generator unit is electric, start and can be started by turning the switch around to the START position. In order to extend the service life of the battery, do not turn the switch for more than 3 seconds and the interval between two attempts should be at least 10 seconds apart. (see Figure I)

**⚠ WARNING**

**Do not allow the grip to snap back after starting; return it gently to its original place.**

5. Allow the engine to run for 10-20 seconds, then move the choke lever to the RUN position. (see Figure J)
6. To operate electrical equipment, turn the circuit breaker ON. Please note that when using several appliances at the same time, do not add the next one unless the generator and other items are running normally. The total power of the loads should not exceed the rated power of the unit. (see Figure K)

**Stopping the engine**

Remove any load from the generator. (see Figure L)

Turn the fuel valve to the OFF position. (see Figure M)

Turn the engine switch to the OFF position. (see Figure N)

To stop the unit quickly in an emergency: Turn the engine switch to the OFF position.

**⚠ WARNING**

The surface temperature of the generator unit are still high after shutdown, and it should not be moved or touched before cooling down to avoid the possibility of burns.

The unit should be stored in a clean and dry place and should be protected from rain and high temperature. Covering the unit is recommended to avoid excessive exposure to moisture and dust. (see Figure O)

If the generator is not used regularly remove the fuel via the drainage bolt of the carburetor and drain the fuel tank. Then tighten the oil drainage bolt again. If a quality fuel stabilizer is used then this procedure can be ignored. (see Figure P)

| Electric equipment   |                           |                                                                                   | Rated power<br>(W) | Starting power<br>(W) |
|----------------------|---------------------------|-----------------------------------------------------------------------------------|--------------------|-----------------------|
| Household Appliances | Flat panel television 27" |  | 500                | 800                   |
|                      | Energy saving lamp        |  | 5~50               | 5~50                  |
|                      | Electric cooker           |  | 1000               | 1000                  |
|                      | Computer                  |  | 800                | 800                   |
|                      | DVD                       |  | 100                | 100                   |
|                      | Refrigerator              |  | 800                | 1600                  |
|                      | Washing machine           |  | 300                | 600                   |
|                      | Electric fan              |  | 50                 | 100                   |
|                      | Air-conditioner 2HP       |  | 1500               | 3000                  |
| Tools                | Electric welder           |  | 2500               | 5000                  |
|                      | Electric hammer           |  | 1000               | 1500                  |
|                      | Water pump                |  | 800                | 1200                  |

The starting wattage of some appliances can be higher than the operating watts. Please read the labels of the electric equipment for reference. The total power of the loads should not exceed the rated power of the generator.

Regular maintenance is the best guarantee of safe, economical and fault-free operation, and can also contribute to environmental protection.

Maintenance schedule is as follows- Please carry out the recommended maintenance at the earlier of the stated hours or elapsed time.

**PROHIBITED LOADS (Never Connect)****1. Life-Support and Critical Medical Equipment**

- Ventilators and respirators
- Dialysis machines
- ICU-grade patient monitors
- Surgical equipment
- Any device labeled “Life-Support” or “Mission-Critical”

**DEATH HAZARD:** A generator power interruption, voltage spike, or frequency deviation can be fatal to a patient dependent on life-support equipment. This generator is NOT approved for medical applications. Use only equipment specifically designed and certified for generator backup power.

**2. Utility Backfeeding (Illegal and Lethal)**

- Connecting generator output to a wall outlet or breaker panel without a transfer switch
- Interlocking the generator to the utility grid

**FATAL:** Backfeeding sends electricity back through the utility lines at lethal voltage. It can KILL utility workers repairing downed lines, ignite fires, and destroy the generator when utility power is restored. ALWAYS use a listed transfer switch installed by a licensed electrician.

**3. Oversized Industrial Equipment**

- Arc welders (except small inverter welders within capacity)
- Large air compressors (> 2 hp)
- Elevators / lifts
- Commercial central air conditioning systems
- Any equipment whose starting watts exceed generator surge rating

**4. Other Prohibited Connections**

- Automotive cigarette-lighter heating elements plugged into 12 V DC outlet (fire hazard)
- Wet or damp environment connections without GFCI protection

| Schedule for regular maintenance |                       | Peruse          | Every 20 hours or in the first month of initial use (3) | Every 50 hours or every 3 months (3) | Every 100 hours or every 6 months (3) | Every 300 hours or every year (3) |
|----------------------------------|-----------------------|-----------------|---------------------------------------------------------|--------------------------------------|---------------------------------------|-----------------------------------|
| Engine oil                       | Inspect the oil level | ○               |                                                         |                                      |                                       |                                   |
|                                  | Replace               |                 | ○                                                       |                                      | ○                                     |                                   |
| Air filter                       | Inspect               | ○               |                                                         |                                      |                                       |                                   |
|                                  | Clean                 |                 |                                                         | ○                                    |                                       |                                   |
| Fuel strainer bowl               | Clean                 |                 |                                                         |                                      | ○                                     |                                   |
| Spark plug                       | Clean                 |                 |                                                         |                                      | ○                                     | Replace                           |
| Valve clearance                  | Readjust              |                 |                                                         |                                      |                                       | ○                                 |
| Cylinder head                    | Wash                  | Every 300 hours |                                                         |                                      |                                       |                                   |
| Fuel tank and strainer           | Wash                  | Every 2 years   |                                                         |                                      |                                       |                                   |
| Oil tube                         | Replace               | Every 2 years   |                                                         |                                      |                                       |                                   |

### Replace the engine oil (see Figure Q)

- 1) Maintenance should be conducted more frequently if the unit is used in dusty conditions.
- 2) Maintenance should be conducted by an authorized generator dealer (to find one see [tpeaustralia.com.au/dealers](http://tpeaustralia.com.au/dealers)).
- 3)

### Clean the air filter (see Figure R)

The air cleaner system uses a foam element that can be washed and reused.

1. Open the cover with the lock nut and remove the foam air filter element.
2. Wash the foam element in liquid detergent and water, then rinse in clean water and squeeze dry in a clean cloth.
3. Saturate the foam filter with clean engine oil, remove excess by squeezing into a dry clean cloth.
4. Refit the air filter and air filter cover.

### **Clean the fuel bowl (see Figure S)**

1. Close the fuel valve and remove the sediment bowl. Take out the O-type seal ring and strainer.
2. Clean the sediment bowl, O-type seal ring and strainer with incombustible or high-flash solvent.
3. Reinstall the O-type seal ring and strainer, and tighten the sediment bowl.
4. Open the fuel valve and inspect for leakage.

### **Clean the spark plug (see Figure T)**

Recommended spark plug models: NGK: BPR7ES. Champion RN7YC.

1. Remove the spark plug cap.
2. Clean the spark plug base.
3. Remove the spark plug with the spark plug socket spanner.
4. Inspect the spark plug insulator visually for damage. If it is damaged, replace a new one.
5. Measure the spark plug clearance with a feeler gauge. The clearance should be kept between 0.70 and 0.80mm.
6. Inspect if the washer of the spark plug is in good condition.
7. Reinstall the spark plug and tighten it with the spark plug socket spanner. Press down the washer of the spark plug and place the spark plug cap.

### **Valve clearance (see Figure U)**

(Should be conducted by a professional person)

Remove the cylinder cover and measure the valve clearance with the feeler gauge. The clearances are 0.1mm for the inlet valve and 0.15mm for the outlet valve.

## MAINTENANCE&MALFUNCTIONS

### Possible malfunctions and methods of their eliminations

| Fault                              | Cause                                                       | Action                                                       |
|------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|
| The unit can not start             | No fuel                                                     | Fill the oil tank with gasoline                              |
|                                    | The Fuel valve is not turned on                             | Turn the fuel valve to ON                                    |
|                                    | The Fuel valve is blocked                                   | Clean the fuel bowl (refer to maintain page)                 |
|                                    | No engine oil or the engine oil level is low                | Add oil                                                      |
|                                    | The engine switch is turned off                             | Turn the switch to the "on" position                         |
|                                    | The spark plug fails                                        | Clean or replace the spark plug (refer to maintain page)     |
| There is no power output           | The circuit breaker is in the off position                  | Turn the circuit breaker to the "on" position                |
|                                    | The plug is poorly contacted                                | Remove and refit the plug                                    |
| The unit shudders during operation | The choke lever position is incorrect                       | Move the choke lever to the "open" position during operation |
| The unit emits white smoke         | The temperature of the engine is too high, maybe overloaded | Let the engine run without load for more than 10 minutes     |
|                                    | The fuel is contaminated                                    | Use fresh clean fuel                                         |
| The unit emits black smoke         | The air filter is dirty                                     | Clean the filter element of the air filter                   |
|                                    | The load is too heavy                                       | Reduce load to the rated limit                               |
| The unit emits blue smoke          | The engine oil is overfilled                                | Drain oil to correct level                                   |
|                                    | The engine oil type is incorrect                            | Choose appropriate engine oil model (refer to maintain page) |
| The power decreases                | The spark plug fails                                        | Clean or replace the spark plug (refer to maintain page)     |
|                                    | The valve clearance are out of adjustment                   | Adjust the valve clearance (refer to maintain page)          |

The environmental condition required to operate the generator:

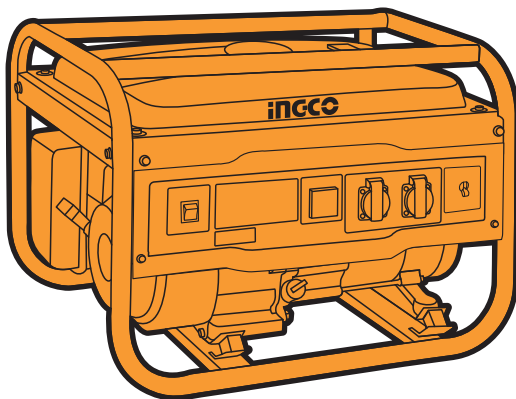
- Suitable temperature:  $-15^{\circ}\text{C}$  -  $40^{\circ}\text{C}$
- Suitable humidity: lower than 95%.
- Suitable altitude: under 1,000 meters (The power load should be reduced where the generator is used at altitudes greater than 1000 meters.)

The generator unit can only be loaded to the rated power under the specified environment conditions. If the environment conditions are inconsistent with the above standards, or if the cooling conditions of the engine and generator unit are poor; for example, when operating in enclosed areas, it is necessary to reduce the power load. It is also necessary to reduce the power load when the temperature, altitude or relative humidity exceed the standards.

If the generator does not work properly in optimal conditions, please take to the nearby dealer or after-sales service center for inspection.







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