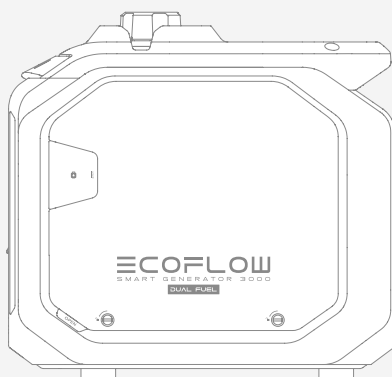


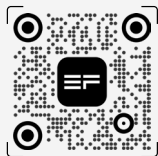


User Manual

V0.1



SAVE THESE INSTRUCTIONS, WARNING:
IMPORTANT SAFETY INSTRUCTIONS



EcoFlow App



Support

EcoFlow Smart Generator 3000 (Dual Fuel)
Low Generator Set

Scan the QR code for User Manual or visit:
Q <https://www.ecoflow.com/support/download/>

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Disclaimer

Please read the product document and ensure that you understand it fully before using the product. After reading this document, keep it for future reference. Improper use of this product may cause serious injury to yourself or others, or cause product damage and property loss. Once you use this product, it is deemed that you understand, approve and accept all the terms and content in this document. EcoFlow is not liable for any loss caused by the user's failure to use the product in compliance with the product document.

In compliance with laws and regulations, EcoFlow reserves the right to the final interpretation of this document and all documents related to the product. This document is subject to changes (updates, revisions, or termination) without prior notice. Please visit EcoFlow's official website to obtain the latest product information: <https://www.ecoflow.com/>.

The images in this manual are for demonstration only. Please refer to the actual product for accurate details.

Please note that this document is a beta version. The final design, components, and specifications of our products may differ from what is shown or described here. EcoFlow reserve the right to make changes at any time without prior notice.

Terms and Abbreviations

The following abbreviations or terms are used in this document:

Term	Definition
The generator	Refers to "EcoFlow Smart Generator 3000 (Dual Fuel)"
LPG	Stands for "Liquefied Petroleum Gas"
GAS	Stands for "Gasoline"
IoT	Stands for Wi-Fi and Bluetooth connections
AC	Stands for "Alternating Current"
DC	Stands for "Direct Current"
RPM	Stands for "Revolutions Per Minute"

Safety Guidelines

SAVE THESE INSTRUCTIONS, WARNING: IMPORTANT SAFETY INSTRUCTIONS

Safety Warning

The safety of you and others, as well as of property are of the primary importance. Please carefully read the extremely important safety warnings we have written in the User Manual and the sticker of the generator set. This is to remind you of the potential dangers which may harm you and others. Before each safety warning is a symbol and one of the three following words: danger, warning or caution.

These words indicate:

 ⚠ DANGER	If you fail to follow the instructions, your life will be at risk or you will be severely injured.
 ⚠ WARNING	If you fail to follow the instructions, your life may be at risk or you may be seriously injured.
 ⚠ CAUTION	If you fail to follow the instructions, your generator set and other property may be damaged.

General Safety Guidelines

- **Carbon Monoxide Hazards**

 ⚠ DANGER

1. Exhaust gas from the generator contains toxic carbon monoxide fumes. Inhaling these fumes may lead to shock, loss of consciousness or even death
2. Do not use the generator indoors, including in homes, garages, basements, and other enclosed or partially-enclosed areas.
3. Keep the generator away from doors, windows, and vents to prevent CO from entering indoors.
4. Leave at least three feet of space on all sides of the generator to ensure adequate ventilation.

5. Install battery-powered carbon monoxide alarms in your home to alert for CO level.

- **Electrical Hazards**

 DANGER

6. Do not use the generator in damp environments.
7. Do not operate the generator with a damaged cord or plug.
8. Do not overload the generator. Ensure the connected loads do not exceed its wattage capacity to prevent damage.
9. **Earthing the Generator:** The generator is equipped with a grounding system that connects its frame components to the ground terminal in the AC outlet. Before use, always ensure the grounding terminal is connected to appropriate grounding equipment, such as a grounding rod. Grounding codes can vary by location. Check with your local electrical regulation for specific requirements.
10. **Floating Neutral:** The grounding system does not connect to the AC neutral line.
11. **Electrical Backfeeding Hazards:** Do not connect the generator to a building's electrical system unless a licensed electrician has installed an isolation switch. Check with your local electrical regulation for specific requirements.

- **Fire Hazards**

 WARNING

12. Keep any combustibles at least 1m / 3ft away. The generator's components or exhaust system can become very hot during operation.
13. Keep fuel away from sparks, open flames, and any other ignition sources.

- **Environment Requirements**

14. Follow the environment temperature requirements specified in the product specification to use or store the generator. Avoid degradation or damage to the generator, or risks to personal safety due to excessively high or low temperatures.
15. **Usage in High Altitude Areas:** In high altitude areas, the atmospheric pressure may reduce the amount of air intake, decline the performance and increase the fuel consumption of standard carburetors. Moreover, the dense mixture may contaminate the spark plug and lead to starting difficulties. When the generator is running at high altitudes (above 3000 feet / 914 m), the emissions may increase.

- **Other**

 CAUTION

16. Use the generator only on a dry, flat, and stable surface.
17. Keep the generator upright to prevent engine oil leaks. Do not lay it down in any position or tilt it.
18. Keep the generator out of reach of children and pets.
19. Keep the air inlets, muffler, and bottom of the generator clean and clear. Prevent debris, mud, or water from entering. Blocked air inlets can damage the generator, controller, or engine.

Restrictions on Use

 CAUTION

20. **Electromagnetic Interference:** Keep the generator a sufficient distance from precision instruments, electronic controllers, personal computers, and microcomputers to avoid electromagnetic interference and ensure proper operation.
21. **Medical Equipment Limit:** This generator is not intended to power medical devices. Please contact the medical equipment manufacturer for any restrictions on using this generator.

Special Requirements

 WARNING

22. Local laws or regulations may apply to the intended use of the generator set. For further information, please consult with qualified electricians, electrical inspectors, or the local authorities with jurisdiction.
23. In some regions, generator sets must be registered with local utility companies.
24. Generator sets used on construction sites may be subject to related regulations or standards.

Operation

- **When Choosing Fuel**

 WARNING

25. LPG: Use standard 20, 30, or 40-pound capacity LPG cylinders with this generator.
26. LPG: Use an approved LPG cylinder that is equipped with an OPD (Overfill Prevention Device).

 CAUTION

27. Gasoline: Use unleaded fuel instead of leaded fuel, which may severely damage the internal parts of the generator.

28. LPG: Make sure that the inspection date on the LPG cylinder is within the scope of specified usage.

- **When Adding Fuel**

 ⚠ DANGER

- 29. Only refuel or drain fuel when the generator is turned off and cooled down.
- 30. Do not smoke while refueling.
- 31. Do not overfill the fuel tank, as fuel may expand and spill out when the fuel tank warms up.
- 32. Do not spill fuel when refueling. Fuel spilled on hot engine parts could ignite.
- 33. Keep the LPG hose and cylinder away from the muffler's exhaust path.
- 34. Regularly inspect the fuel tank, cap, hose, and fittings for cracks or leaks, and replace them if necessary.

 ⚠ WARNING

- 35. Do not allow children to tamper or play with the LPG cylinder or LPG hose.
- 36. Do not install the gas cylinder near sources of ignition, and keep it away from sunlight, rain, and dust.
- 37. Install the LPG cylinder on a flat surface and keep it upright with the valve on top.
- 38. **LPG Smell:** If you smell strong LPG, immediately close the valve. Never use an open flame to check for leaks. Use soapy water to check the hose and all fittings for leaks, and then contact a qualified technician for assistance.
- 39. **LPG Transportation or Storage:** Close the cylinder valve and cover it with a plastic protective cap. Keep the cylinder away from ignition sources and ensure good ventilation in the vehicle.

 ⚠ CAUTION

- 40. Clean away any residual fuel with a clean and soft cloth after refueling to avoid damage to the rubber shell.
- 41. Securely position the cylinder to prevent bending or twisting when connecting the LPG hose.

- **When Adding Engine Oil**

 ⚠ CAUTION

- 42. The generator comes without engine oil. Do not start the generator until it has been properly filled with engine oil. When adding engine oil, do not tilt the generator to avoid adding excessive oil.

- **During Operation**

 ⚠ DANGER

- 43. Do not plug any electrical equipment into the AC receptacle before starting the generator.
- 44. Turn off all electrical equipment and unplug it before stopping the generator.

 ⚠ WARNING

- 45. Turn off all electrical equipment before plugging it into the generator.
- 46. When starting the generator manually, pull the cord slowly until you feel resistance, then pull rapidly to avoid kickback.

 ⚠ CAUTION

- 47. Make sure that all electrical equipment including wires and plugs are in good condition before being connected to the generator, and confirm that all loads carried by the generator are within the rated load range and that the load current is within the rated current range.

Maintenance, Storage, and Transportation

 ⚠ DANGER

- 48. Always turn off the generator first and wait until it has completely cooled down. The engine and muffler may remain hot after shutdown.
- 49. Disconnect the spark plug to prevent the generator from starting up.

 ⚠ CAUTION

- 50. Read the User Manual thoroughly for proper instructions.
- 51. Always transport, move, store, or repair the generator with an empty fuel tank.
- 52. Do not transport or store the generator alongside other products. Oil leaks could damage the generator or pose risks to your safety and property.

Please refer the following stickers carefully before using the product.

Read the owner's manual and all labels before operating. Lire le manuel d'utilisation et toutes les étiquettes avant d'utiliser de générateur.

Read the owner's manual and all labels before operating. Lire le manuel d'utilisation et toutes les étiquettes avant d'utiliser de générateur.

 When operating the generator: Never place a partition or other barrier around the generator. Do not cover the generator with a box. Do not place any objects on the generator. Lors de l'utilisation du générateur : Ne jamais entourer le générateur d'une cloison ou d'un autre bâtiment. Ne pas recouvrir le générateur d'une cloison. Ne placer aucun objet sur le générateur. L'appareil le moteur a complètement arrêté, placer la bague d'alignement du bouchon de l'alignement du corps avant une CEE.

MÉDICALS EN CAS DE NAUÉE, VERTIGES OU DE SENSATION DE FAIBLESSE.

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

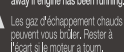


NEVER use inside a home or garage,
EVEN IF doors and windows are open

Only use OUTSIDE and far away from windows, doors, and vents.

L'utilisation de cet équipement peut créer des étincelles susceptibles de provoquer des incendies autour d'une végétation sèche.

Un pare-étincelles peut être nécessaire.
L'utilisateur doit contacter les services
anti-incendie locaux pour connaître les lois ou
réglementations relatives aux exigences de
prévention des incendies.



P/N

MAINTENANCE SHOWN IN OWNER'S MANUAL

CHONGQING RATO TECHNOLOGY CO., LTD.

- Button / Coin Battery Safety
This product contains button / coin battery.

⚠ WARNING

- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



3V, CR2450 (Non-replaceable battery).



This symbol means:
WARNING: CONTAINS COIN BATTERY.

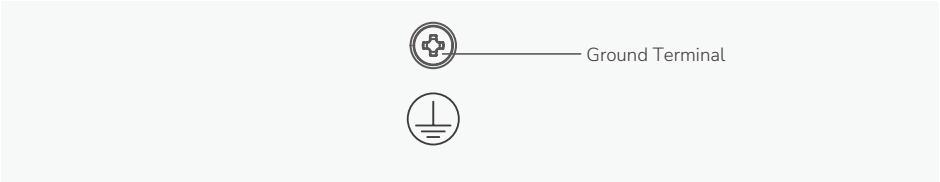
Battery specification

Component	☐ Key	☒ CO alarm	☐ Display
Model	/	CR2450	/
Nominal voltage	/	3V	/
Battery type	Contains replaceable battery.	Contains non-replaceable battery.	Contains non-replaceable battery.

Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
Even used batteries may cause severe injury or death.
Call a local poison control center for treatment information.
Non-rechargeable batteries are not to be recharged.
Do not force discharge, recharge, disassemble, heat above 140 Fahrenheit or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

Generator Ground Circuit

In order to prevent electric shock due to shoddy electrical appliances or wrong use of electricity, the generator must be grounded with a good-quality insulated conductor.



Status of the Neutral Conductor

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

Powercord: Using Extension Cords

EcoFlow assumes no responsibility for the contents of this table. The use of this table is solely the responsibility of the user only. This table is intended for reference only. The results produced by using this table are not guaranteed to be correct or applicable in all situations as the type and construction of the cards are highly variable. Always check with local regulations and a licensed electrician prior to installing or connecting an electrical appliance.

Extension Cord Wire Gauge Size									
LENGTH OF EXTENSION COR (ft)									
AMPS	10	20	30	40	50	60	80	100	120
5	20	18	16	14	12	12	10	10	8
10	18	16	14	12	12	10	10	8	8
15	16	14	12	12	10	10	8	8	6
20	14	12	12	10	10	8	8	6	6
25	12	12	10	10	8	8	6	6	6
30	12	10	10	8	8	6	6	6	6
35	10	10	8	8	8	6	6	6	6

Exhaust and Evaporative Emissions Control Warranty Statement

YOUR WARRANTY RIGHTS AND OBLIGATIONS

For EPA certified engine/equipment

The United States Environmental Protection Agency and RATO Technology, Inc. (RATO), are pleased to explain the exhaust and evaporative emissions ("emissions") control system warranty on your 2024/2025 small off-road engine/equipment. In the United States, new equipment that use small off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. RATO must warrant the emissions control system on your small off-road engine/equipment for the period listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine/equipment leading to the failure of the emissions control system.

Where a warrantable condition exists, RATO will repair your small off-road engine/equipment at no cost to you including diagnosis, parts and labor.

YOUR WARRANTY RIGHTS AND OBLIGATIONS

For EPA & CARB certified engine/equipment

The California Air Resources Board, the United States Environmental Protection Agency and Chongqing Rato Technology Co., Ltd. (RATO), are pleased to explain the exhaust and evaporative emissions ("emissions") control system warranty on your 2024/2025 small off-road engine/equipment. In California, new equipment that use small off-road engines must be designed, built, and equipped to meet the State's stringent anti-smog standards. RATO must warrant the emissions control system on your small off-road engine/equipment for the period listed below provided there has been no abuse, neglect or improper maintenance of your small off-road engine/equipment leading to the failure of the emissions control system.

Your emissions control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines (for liquid fuel and fuel vapors), fuel caps, valves, canisters, filters, clamps and other associated components. Also included may be hoses, belts, connectors, and other emission-related assemblies.

Where a warrantable condition exists, RATO will repair your small off-road engine/equipment at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

The exhaust and evaporative emissions control system on your small off-road engine/equipment is warranted for two years. If any emissions-related part on your small off-road engine/equipment is defective, the part will be repaired or replaced by RATO.

OWNER'S WARRANTY RESPONSIBILITIES:

As the small off-road engine/equipment owner, you are responsible for performance of the required maintenance listed in your owner's manual. RATO recommends that you retain all receipts covering maintenance on your small off-road engine/equipment, but RATO cannot deny warranty coverage solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine/equipment owner, you should however be aware that RATO may deny you warranty coverage if your small off-road engine/equipment or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine/equipment to a RATO distribution center or service center as soon as the problem exists. The warranty repairs shall be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact Great Lakes Technologies, LLC. at 855-859-1110 or mail to: techsupport@wenproducts.com.

DEFECTS WARRANTY REQUIREMENTS:

- a. The warranty period begins on the date the small off-road engine/equipment is delivered to an ultimate purchaser.
- b. General Emissions Warranty Coverage. RATO warrants to the ultimate purchaser and each subsequent owner that the engine or equipment is:
 - (1) Designed, built, and equipped so as to conform with all applicable regulations adopted by the Air Resources Board; and
 - (2) Free from defects in materials and workmanship that causes the failure of a warranted part for a period of two years.
- c. The warranty on emission-related parts will be interpreted as follows:
 - (1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions must be warranted for the warranty period defined in Subsection (b)(2). If any such part fails during the period of warranty coverage, it must be repaired or replaced by RATO according to Subsection (4) below. Any such part repaired or replaced under the warranty must be warranted for the remaining warranty period.
 - (2) Any warranted part that is scheduled only for regular inspection in the written instructions must be warranted for the warranty period defined in Subsection (b)(2). A statement in such written instructions to the effect of "repair or replace as necessary" shall advise owners of the warranty coverage for emissions related parts. Replacement within the warranty period is covered by the warranty and will not reduce the period of warranty coverage. Any such part repaired or replaced under warranty must be warranted for the remaining warranty period.
 - (3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions must be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part must be repaired or replaced by RATO according to Subsection (4) below. Any such part repaired or replaced under warranty must be warranted for the remainder of the period prior to the first scheduled replacement point for the part.
 - (4) Repair or replacement of any warranted part under the warranty provisions must be performed at no charge to the owner at a warranty station.
 - (5) Notwithstanding the provisions of Subsection (4) above, warranty services or repairs must be provided at distribution centers that are franchised to service the subject engine/equipment.
 - (6) The owner must not be charged for diagnostic labor that leads to the determination that a warranted part is in fact defective, provided that such diagnostic work is performed at a warranty station.
 - (7) RATO is liable for damages to other engine/equipment components proximately caused by a failure under warranty of any warranted part.
 - (8) Throughout the emissions control system's warranty period set out in subsection (b)(2), RATO must maintain a supply of warranted parts sufficient to meet the expected demand for such parts and must obtain additional parts if that supply is exhausted.
 - (9) Manufacturer-approved replacement parts that do not increase the exhaust or evaporative emissions of the engine or emissions control system must be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of RATO.
 - (10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts will be grounds for disallowing a warranty claim. RATO will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.
 - (11) RATO issuing the warranty shall provide any documents that describe that warranty procedures or policies within five working days of request by the Executive Officer.
- d. Emission Warranty Parts List for Exhaust
 - (1) Fuel Metering System
 - (i) Carburetor and internal parts (and/or pressure regulator or fuel injection system).
 - (ii) Air/fuel ratio feedback and control system.
 - (iii) Cold start enrichment system.
 - (2) Air Induction System
 - (i) Controlled hot air intake system.
 - (ii) Intake manifold.
 - (iii) Air filter.
 - (3) Ignition System
 - (i) Spark Plugs.
 - (ii) Magneto or electronic ignition system.
 - (iii) Spark advance/retard system.
 - (4) Exhaust Gas Recirculation (EGR) System

- (i) EGR valve body, and carburetor spacer if applicable.
 - (ii) EGR rate feedback and control system.
- (5) Air Injection System
 - (i) Air pump or pulse valve.
 - (ii) Valves affecting distribution of flow.
 - (iii) Distribution manifold.
- (6) Catalyst or Thermal Reactor System
 - (i) Catalytic converter.
 - (ii) Thermal reactor.
 - (iii) Exhaust manifold.
- (7) Particulate Controls
 - (i) Traps, filters, precipitators, and any other device used to capture particulate emissions.
- (8) Miscellaneous Items Used in Above Systems
 - (i) Electronic controls.
 - (ii) Vacuum, temperature, and time sensitive valves and switches.
 - (iii) Hoses, belts, connectors, and assemblies.
- e. Emission Warranty Parts List for Evap
 - (1) Fuel Tank
 - (2) Fuel Cap
 - (3) Fuel Lines (for liquid fuel and fuel vapors)
 - (4) Fuel Line Fittings
 - (5) Clamps*
 - (6) Pressure Relief Valves*
 - (7) Control Valves*
 - (8) Control Solenoids*
 - (9) Electronic Controls*
 - (10) Vacuum Control Diaphragms*
 - (11) Control Cables*
 - (12) Control Linkages*
 - (13) Purge Valves*
 - (14) Gaskets*
 - (15) Liquid/Vapor Separator
 - (16) Carbon Canister
 - (17) Canister Mounting Brackets
 - (18) Carburetor Purge Port Connector

*Note: As they relate to the evaporative emission control system.

RATO will furnish with each new small off-road engine/equipment written instructions for the maintenance and use of the engine/equipment by the owner.

FCC Statement

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This equipment should be installed and operated with a minimum distance of 20 cm between the radiator & your body.

IC Statement

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

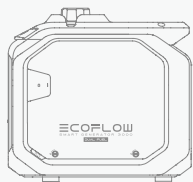
This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

When using the product, maintain a distance of 20 cm from the body to ensure compliance with RF exposure requirements.

Il doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et toute partie de votre corps.

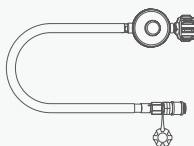
Package List



EcoFlow Smart Generator



User Manual and
Warranty Card



LPG Hose



Oil Funnel



Screwdriver



Spark Plug Socket



Breaker Bar

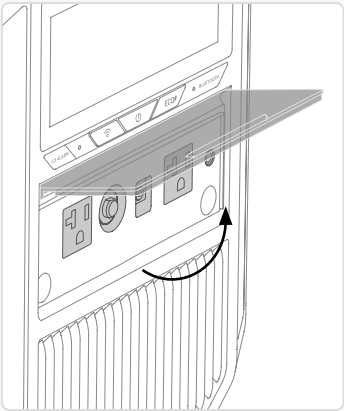
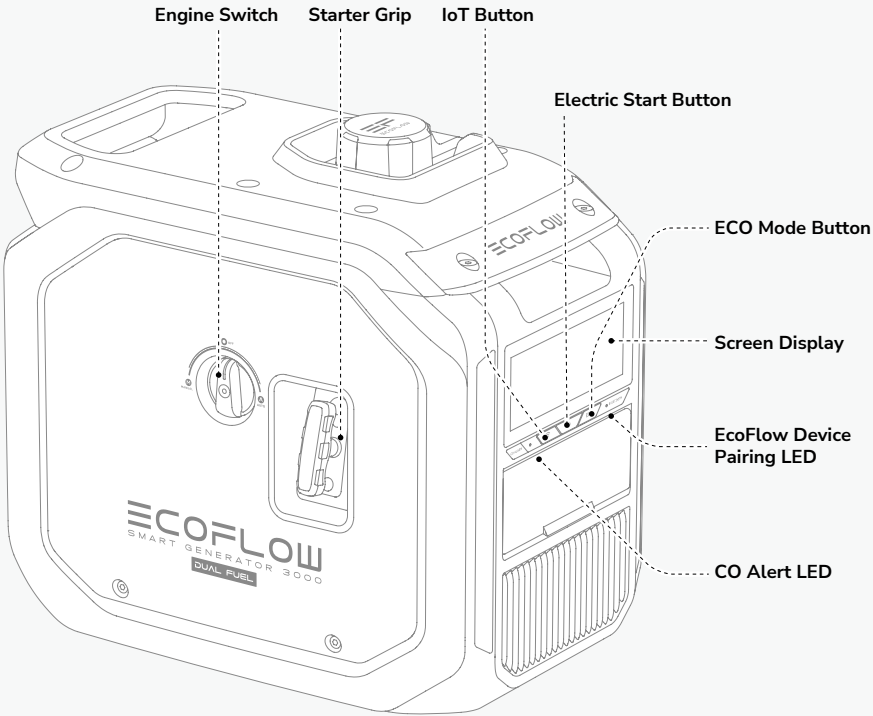


Double-Ended Spanner

- If any item is damaged or missing, please reach out to EcoFlow Customer Service for assistance.
- The images in this manual, including those of the package contents, are for demonstration purposes only. Please refer to the actual product for accurate details.

Getting Started

| Appearance



x2 AC Output Socket



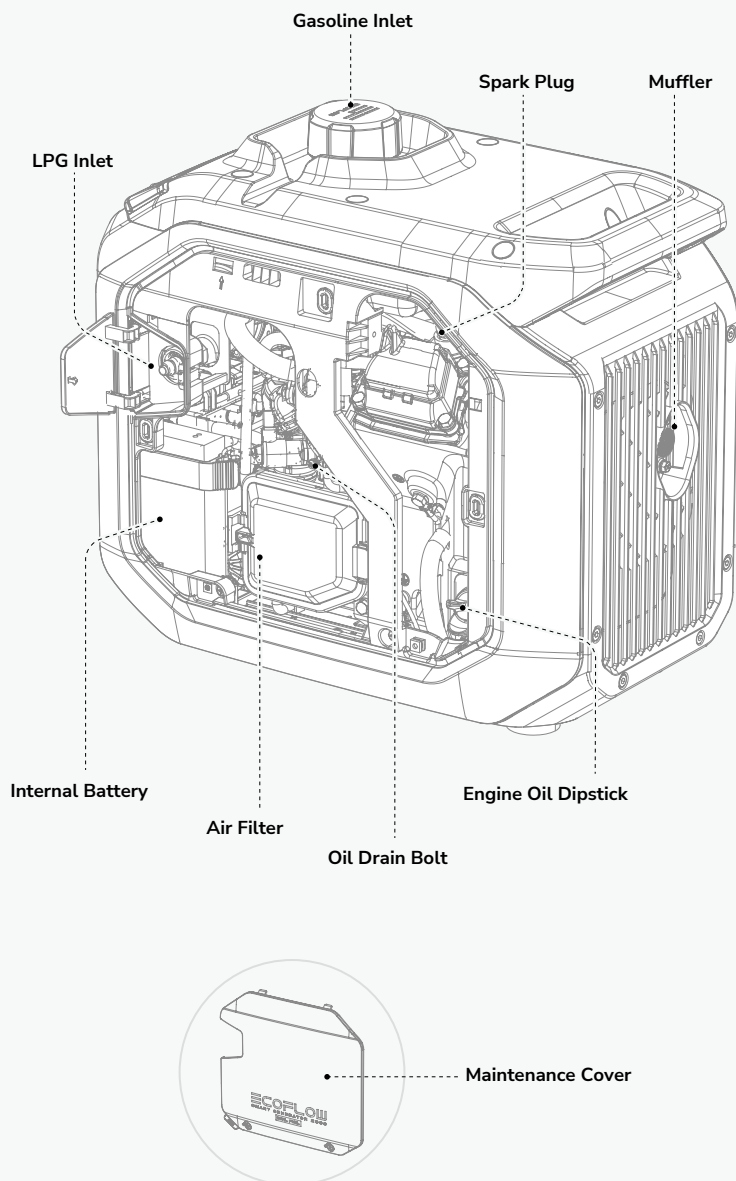
Thermal Protector



Ground Terminal



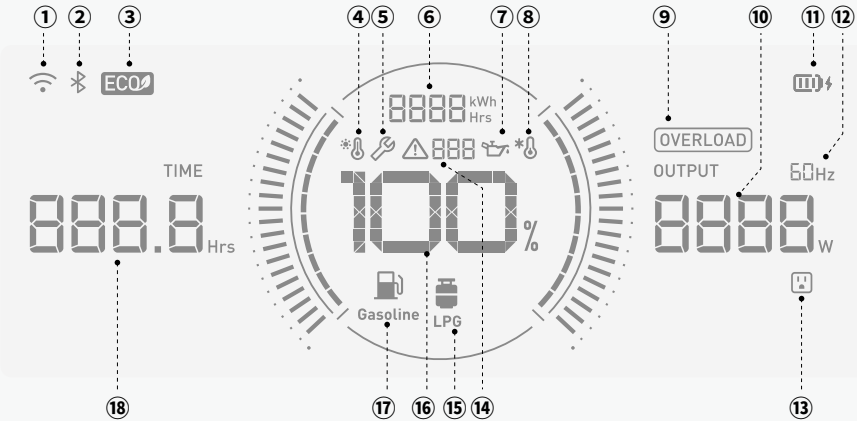
Internal Battery Charging Port (DC5521)



Carbon Monoxide Alert Light: When the carbon monoxide sensor detects that the concentration of carbon monoxide is about to exceed the standard, the generator will automatically stop and the carbon monoxide alert light will flash for 5 minutes. After shutting down, wait for 5 minutes before restarting the generator.

Thermal Protector: Thermal Protector will be triggered in case of overtemperature or overload. To restore the AC output, wait for the temperature to return to a normal level and then press the thermal protector again.

|Display Screen



- ①

Wi-Fi Connection
- ②

Bluetooth Connection
- ③

ECO Mode
- ④

Over Temperature Alert
- ⑤

Maintenance Reminder
- ⑥

Total Running Time /
Total Power Generation
- ⑦

Engine Oil Alert
- ⑧

Low Temperature Alert
- ⑨

Output Overload Alert
- ⑩

Output Power
- ⑪

Internal Rechargeable Battery Level
- ⑫

Operating Frequency
- ⑬

AC Output Socket
- ⑭

Error Code
- ⑮

Fuel-LPG
- ⑯

Fuel Level
- ⑰

Fuel-Gasoline
- ⑱

Remaining Running Time

①/②	Bluetooth Connection: This icon will be displayed when a phone is connected to the generator via Bluetooth. Wi-Fi Connection: This icon will be displayed when the generator successfully accesses the internet via a wireless network.
③	In this mode, the generator will automatically match the RPM according to power output level in order to reduce fuel consumption and noise. ECO Mode is enabled by default. To turn it off / on: Method 1: Press the ECO Mode Button for about 1-2 seconds; Method 2: Turn it off / on in the EcoFlow app settings. For details, refer to "EcoFlow App" (Page 18).
⑰	When using LPG as the fuel source, the display will show "88" by default. If you want to check the current LPG level, enable "LPG Level Monitoring" via the EcoFlow app.

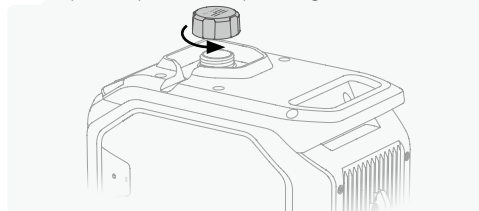
*See "Troubleshooting Guide" (Page 26) for more details about error codes.

Preparation Before Use

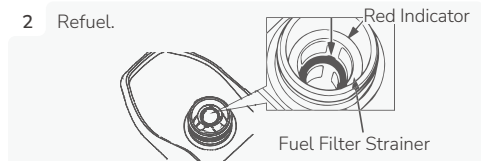
Add Fuel: Gasoline

- ⚠ DANGER** • Please read the Safety Guidelines carefully before refueling as fuel is inflammable and toxic. Do not overfill the fuel tank, as fuel may expand and spill out when the fuel tank warms up. Be sure to tightly close the fuel cap after refueling.
- ⚠ CAUTION** • Clean away any residual fuel with a clean and soft cloth after refueling to avoid damage to the rubber shell.
- Please use unleaded fuel rather than leaded fuel which may severely damage the internal parts of generator.
- Take off the fuel cap and fill up until the red indicator.

- 1 Open the protective cap of the gasoline inlet.



- 2 Refuel.

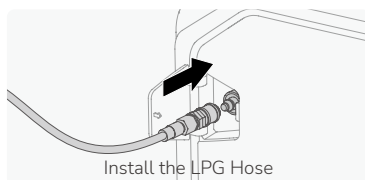


Recommended fuel: unleaded gasoline
Fuel tank capacity: 4 L / 1.06 gal.

Add Fuel: LPG

- ⚠ DANGER** • When the engine is running, do not place the LPG hose or the LPG cylinder in the exhaust passage of the muffler.
- ⚠ WARNING** • Do not allow children to tamper or play with the LPG cylinder or LPG hose.
- Use standard 20, 30, or 40-pound capacity LP cylinders with this generator.
- Use an approved LPG cylinder that is equipped with an OPD (Overfill Prevention Device). Install the LPG cylinder on a flat surface, with the cylinder always in a upright position and the valve resting on top of the cylinder.
- The gas cylinder should not be installed near any sources of ignition, and should not be exposed to sunlight, rain, or dust.
- Close the cylinder valve during transportation and storage by disconnecting the cylinder and covering it with a protective cap. If possible, a plastic protective cap is typically used. Keep the cylinder far away from sources of ignition and ensure proper ventilation inside the vehicle.
- If there is a strong LPG smell, immediately close the cylinder valve, and use soapy water to wet all the LPG hose fittings to check for leak. If bubbles appear or grow, it indicates a leak in the LPG hose. Do not check for air leaks with an open flame, such as by lighting a cigarette. If you find a leak, contact a qualified technician for inspection.
- ⚠ CAUTION** • To add LPG, connect the LPG hose to the standard LPG cylinder for proper operation.
- Make sure that the inspection date on the LPG cylinder is within the scope of specified usage.
- The position of the cylinder must be firmly set to avoid excessive bending or twisting when the LPG hose is connected.

1. Make sure the LPG cylinder valve is in the closed position.
2. If you are using a new LPG cylinder, first remove the plastic cap located on top of the cylinder valve.
3. Connect the LPG hose to the LPG cylinder valve and tighten it with the provided double-ended spanner.
4. Remove the dust cover from the LPG inlet of the generator.
5. Remove the protective rubber plug from the female connector of the LPG hose.
6. Insert the female connector of the LPG hose into the LPG inlet and push it until you hear a click, and move the outer ring of the female connector forward.



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Note: Close the LPG cylinder valve promptly when the generator shuts down. Do not place the LPG cylinder on the side with the generator's muffler.

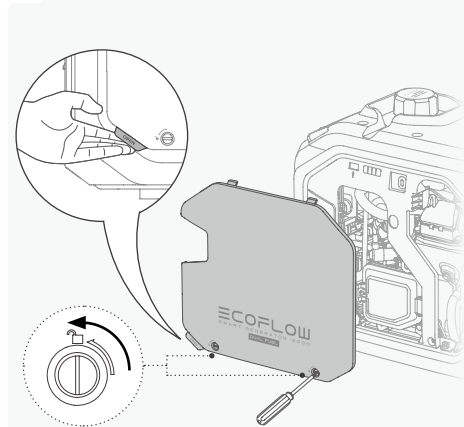
Adding Generator Engine Oil

CAUTION

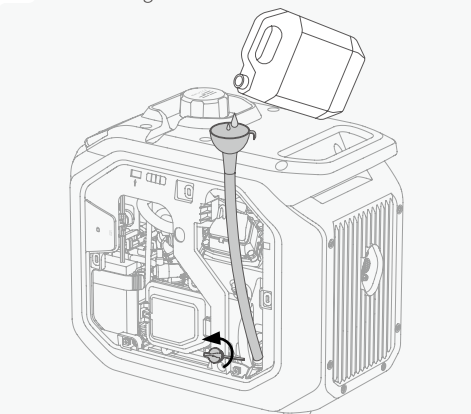
- There is no engine oil in the generator when delivered from the factory. Do not start the generator until it has been properly filled with engine oil. When adding engine oil, do not tilt the generator to prevent damage from excessive oil.

Place the generator on a level surface. Use the provided screwdriver to loosen the bolts of the maintenance cover, and then remove it. Remove the lid and oil dipstick. Use the provided funnel to add the recommended type and amount of engine oil. Then, reinstall the lid, oil dipstick, and maintenance cover, and make sure they are fully tightened.

1 Remove the maintenance cover.

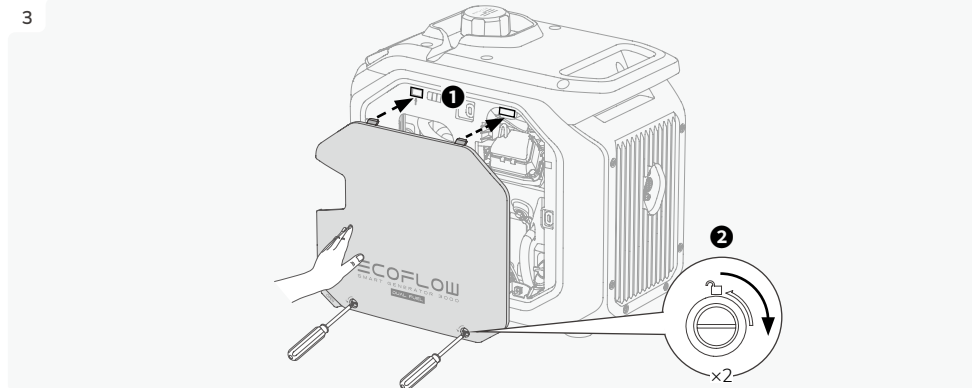


2 Add the engine oil.



Recommended engine oil: SAE SJ 10W-40
Recommended engine oil grade: API Grade SJ or higher
Oil capacity: 400 ml / 0.423 quarts

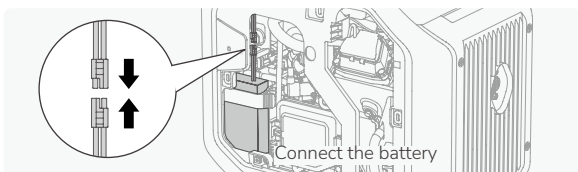
3



Connecting Internal Rechargeable Battery

To start the generator using the Electric Start Switch, connect the internal rechargeable battery first.

Open the protective cover of the Internal Rechargeable Battery port. Connect the positive and the negative wires of the battery respectively.



Checklist



WARNING

- Please check the following components carefully each time before using the generator.

a. Check the fuel level (when using gasoline)

Take off the fuel cap and check the fuel level. Inject more fuel into the tank if the fuel level is too low.

b. Check the LPG (when using LPG)

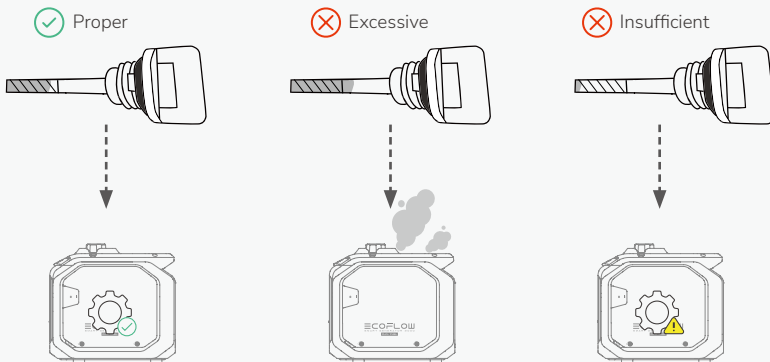
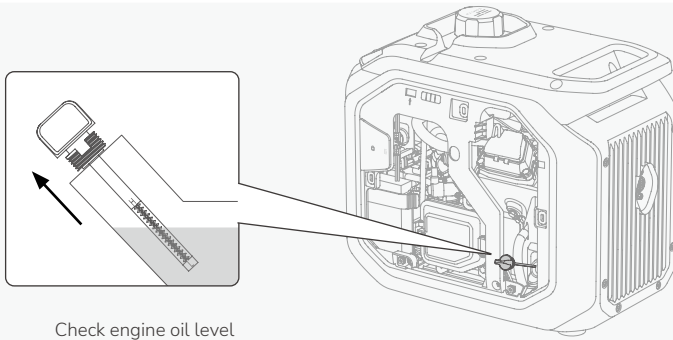
Open the LPG cylinder valve, and use soapy water to soak all the connections on the LPG hose to check for leaks. If bubbles appear or bubbles grow, then this indicates a leak in the LPG hose. If the leak is at a fitting, then turn off the valve on the cylinder and tighten the fitting. Open the valve again and use soapy water to recheck the fitting, then turn off the valve on the cylinder and tighten the fitting. If the leak continues, or if the leak is not at the fitting, then stop using the generator and contact customer support.

c. Check the engine oil level

- Make sure there are no engine oil leaks.
 - Check the engine oil level. If the oil level is low, the engine oil alarm system may shut off the engine.
1. Unscrew the lid, take out the oil dipstick and wipe it clean.
 2. Dip the oil dipstick into the oil filler to check the oil level.
 3. Add the recommended amount of engine oil if the oil level is low.
 4. Screw the oil dipstick and lid firmly shut.

d. Check whether the rechargeable battery is connected correctly

Open the protective cover of the Internal Rechargeable Battery port. Check whether the positive and the negative wires of battery are connected correctly.



Note: Malfunctions While Running

If any malfunction occurs while the generator is running, contact EcoFlow for further technical support.

Operation

DANGER

- Read the Safety Guidelines before use.
- Do not use the generator in a closed space as the exhaust fumes may result in a loss of consciousness or even death. Use it in a well-ventilated place.
- Do not connect the AC Output Socket with any electrical equipment before starting the generator.

Note: The ambient temperature range for the generator is -15°C to 40°C (5°F to 104°F) in gasoline mode and -5°C to 40°C (23°F to 104°F) in LPG mode. Generators can operate under standard atmospheric conditions, which include an ambient temperature of 25°C (77°F), atmospheric pressure of 100 kPa, and relative humidity of 30%. However, when the temperature, humidity, or altitude exceeds standard atmospheric conditions, the generator's output may decrease. Extended operation under high temperatures ($>35^{\circ}\text{C}$ / $>95^{\circ}\text{F}$) can also affect the generator's lifespan and its internal battery. Additionally, using the generator in small spaces may require reducing the output to prevent overheating.

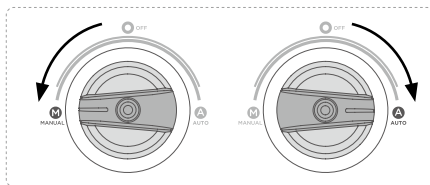
Startup

WARNING

- Ensure the Engine Switch is properly aligned with the corresponding fuel position to prevent system malfunction.

1

- **To power appliances:**
Turn the Engine Switch to "MANUAL".
- **To charge power station:**
Turn the Engine Switch to "AUTO".



2

Generator Startup (4 Methods)

a. Electric Start Button

Press and hold the Electric Start Button for 2 seconds to turn on the generator.

Note: To conserve battery power, if the Engine Switch is in the ON position but the generator is not running, power will be disconnected after 3 minutes, and the LCD screen will turn off. In this case, press the Electric Start Button to activate the screen display then keep holding the button for 2 seconds to execute the start-up program.

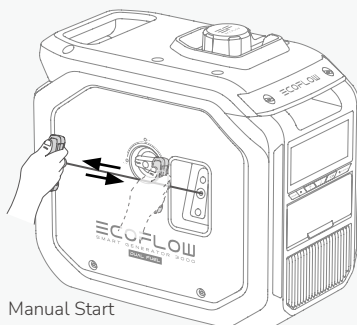
b. Manual start

Pull the Manual Starter Grip until the line tightens, then push it forcefully.

Note: Hold the generator to prevent it from bumping while you pull the cord. Do not let the starter handle spring back towards the generator. Gently return the handle to its original position to avoid damaging the starter.

c. Self-start

When connected to an EcoFlow DELTA 3 power station, the generator will start automatically to charge the power station if the it is in a low battery level.



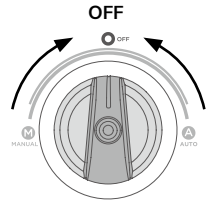
Manual Start

Shutdown

In case of emergency, turn the Engine Switch to **OFF** position to power off the generator. Under normal circumstances, please follow the procedure below.

Gasoline

1. Switch off all connected loads and disconnect them from the generator.
2. There are 3 methods to shutdown the generator:
 - a. Using the Engine Switch: Turn the Engine Switch to **"OFF"**.
 - b. Using the Electric Start button: Press and hold the Electric Start button for 2 seconds.
 - c. Automatic shutdown: The generator will automatically shut down when it is pairing with an EcoFlow DELTA 3 power station.
Note: The generator will automatically shut down after 10 minutes to conserve fuel if both AC and DC output ports are idle.
3. Wait until the generator is completely cooled down, then turn the Engine Switch to **"OFF"** to power off the generator.



LPG

1. Turn off all the connected electrical equipment, and then disconnect it from the generator.
2. Situations:
 - a. For temporary generator shutdown: the procedure is the same as for fuel.
 - b. For prolonged generator shutdown: Turn off the cylinder valve and wait until LPG in the generator is fully consumed. The generator will shut down automatically.
3. Turn the Engine Switch to **"OFF"** to power off the generator.

Power AC Devices



WARNING

- Switch off all electrical equipment before inserting plugs.



CAUTION

- Make sure that all electrical equipment including wires and plugs are in good condition before being connected to the generator, and confirm that all loads carried by the generator are within the rated load range and that the load current is within the rated current range.
Note: Make sure that the generator is grounded. If any electrical equipment needs to be grounded, the generator must also be grounded.

1. Start the generator.
2. Connect the electrical equipment into the AC Output Socket of the generator, then check if the on-screen AC output port icon is illuminated.
3. Switch on the electrical equipment.
Note:
 - When the generator is in operation, the AC output can be turned on / off via the EcoFlow app.
 - If the output reaches or exceeds 50% of the rated level of the generator, you can switch to high performance mode via the EcoFlow app.
 - If the generator is powering multiple electrical equipment, turn on those equipment sequentially based on their power loads.

EcoFlow App

EcoFlow offers a companion app for device management. With this mobile application, you can:

- All-in-One Control: Manage all your EcoFlow devices conveniently from anywhere.

- **Real-Time Monitoring:** Stay updated on power generation and consumption details with seamless, real-time updates, allowing you to monitor your energy usage efficiently.
 - **Maintenance Reminders:** Receive timely reminders for product maintenance.
 - **Customizable Energy Schemes:** Personalize your energy usage by choosing from a variety of customizable options, tailoring them to suit your specific needs and preferences.
 - **Technical Support and Firmware Updates:** Access in-app technical support and receive firmware updates promptly, ensuring that your EcoFlow devices remain up-to-date and function optimally at all times.
- Scan the QR code below or download it at: <https://download.ecoflow.com/app>



Application Range

- CAUTION**
- When this generator is supplying power to precision instruments, electronic controllers, personal computers and microcomputers, please keep the generator a sufficient distance away from any of the foregoing equipment to avoid electromagnetic interference, and at the same time, to ensure that the generator will not be interfered with by these electronic devices.
 - If this generator is used to supply power to medical devices, it is recommended to consult with the corresponding equipment manufacturers and technicians first. This is because some electronic equipment or general purpose machines in hospitals require a strong current upon startup and may not be able to use the generator. Please contact the equipment manufacturer for confirmation even if the respective start parameters of the equipment satisfy the conditions listed in the table above.

Please make sure that the total load of the generator is within the rated range before using the generator, or otherwise the generator may be damaged.

Load			
Power Factor	1	0.8-0.95	0.4-0.75(Efficiency 0.85)
Power Output	≤2200W(Gasoline) ≤2000W(LPG)	≤1760W(Gasoline) ≤1600W(LPG)	≤880W(Gasoline) ≤800W(LPG)

Special Requirements

- WARNING**
- Local laws or regulations may apply to the intended use of the generator set. For further information, please consult with qualified electricians, electrical inspectors, or the local authorities with jurisdiction.
 - In some regions, generator sets must be registered with local utility companies.
 - Generator sets used on construction sites may be subject to related regulations or standards.

Maintenance and Servicing

Proper maintenance and servicing is essential to ensure safe, economical and reliable usage. This also helps minimize your environmental impact.

You must regularly check and service your generator to keep it in optimal condition based on the schedule below.

-  **⚠ DANGER**

 - Turn off the generator before starting any maintenance.
 - Place the generator on a level spot and separate the spark plug cap from the spark plug to prevent the generator from starting up.
 - Do not use the generator such in poorly ventilated places such as rooms, rail tunnels or caves. Be sure to keep the working area well ventilated.
 - Exhaust gas from the generator contains toxic carbon monoxide fumes. Inhaling these fumes may lead to shock, loss of consciousness or even death.
-  **⚠ CAUTION**

 - If the generator set works at high temperature under high loads, the engine oil should be replaced every 25 hours.
 - If working in dusty or harsh environments, the air filter element should be cleaned every 10 hours and, if necessary, replaced every 25 hours. Spot check items based on either the cycle or length of time, whichever comes first.
 - If you have reached a servicing interval, servicing must be performed as required based on the table above as soon as possible.

Item \ Servicing Intervals		Each Time	Within the first month or after 20 hours of operation	Once every three months or every 50 hours of operation thereafter	Then once every year or every 100 hours of operation
Generator Engine Oil	Check – Add	✓			
	Replace		✓	✓	
Air Filter Element	Check – Add	✓			
	Clean		✓		
	Replace			✓	
Sediment Bowl	Clean				✓
Spark Plug*	Clean – Adjust				✓
Spark Plug Arrester	Clean			✓	
Valve Clearance**	Clean – Adjust				✓
Fuel Filter**	Clean				✓
LPG Hose**	Check	Every 2 years (or replace it if necessary)			
Fuel Pipe**	Check	Every 2 years (or replace it if necessary)			
Cylinder Head, Piston	Remove any carbon deposits**	Every 300 hours			

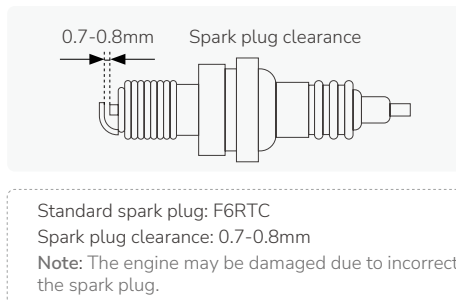
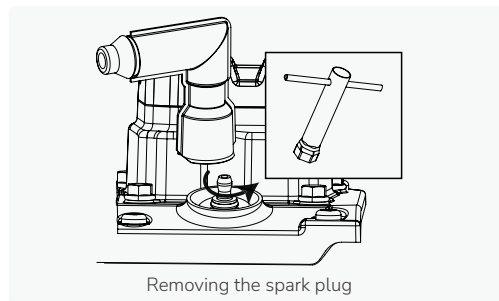
*These items should be replaced if necessary.

**These items should be serviced by their respective dealers unless the user has the appropriate tools and maintenance capacity.

Checking the Spark Plug

The spark plug is an important part of the generator and must be checked regularly.

1. Use the provided screwdriver to loosen and remove the bolt securing the top maintenance cover.
2. Take off the spark plug cap.
3. Use the spark plug socket and revolve it counterclockwise to remove the spark plug.
4. Check for any fading in color and remove any carbon deposits. The porcelain center around the spark plug center electrode should be moderately light brown if it is in good condition. The electrode should be replaced if worn, or if the insulation is peeling, cracked or dirty.
5. Check the model of the spark plug and that it has sufficient clearance. If required, correct the gap.
6. Reinstall the spark plug with a torque of $22 \pm 2 (N \times m)$.
Note: If installing without a torque wrench, a good method is to tighten until tight, then continue to turn by a further 1/4-1/2 rotation.
7. Reinstall the spark plug cap on the spark plug.
8. Reinstall the maintenance cover.



Adjusting the Carburetor

The carburetor is an important part of engine, and should be adjusted by the dealer who has the professional knowledge, data and equipment to ensure it is adjusted correctly.

Usage in high altitude areas

In high altitude areas, the atmospheric pressure may reduce the amount of air intake, decline the performance and increase the fuel consumption of standard carburetors. Moreover, the dense mixture may contaminate the spark plug and lead to starting difficulties. When the generator is running at high altitudes (above 3000 feet / 914 m), the emissions may increase.

Replacing the Engine Oil

- WARNING** Do not drain the engine oil immediately after the generator is switched off. The oil temperature will be very high. Please take care not to get scalded when draining the oil.
- Prevent any foreign objects from entering the inside of the engine.
- CAUTION** Do not tilt the generator when adding engine oil to prevent damage to the generator due to adding excessive oil.

1. Place the generator on a level plane, start it up and keep it running for several minutes to increase its temperature. Then turn it off. Turn the Engine Switch to "OFF".
2. Use the provided screwdriver to loosen the bolts of the maintenance cover, and then remove it.
3. Loosen the lid and oil dipstick.
4. Place the oil basin under the generator and tilt the generator. The oil will drain quickly.

Note: Improper disposal of engine oil may harm the environment. If you replace the engine oil yourself, please dispose of the used oil properly. Store the used oil in a sealed container and take it to your nearest oil recycling center. Do not pour it into any trash can, onto the ground or into the sewer.

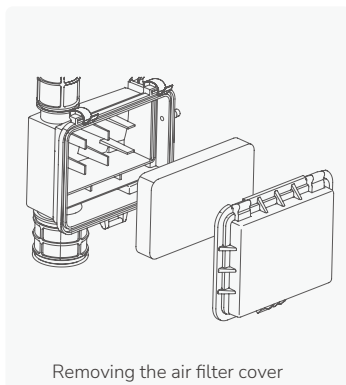
5. Place the generator in its original horizontal state.
6. Refill the oil to the proper level.
7. Wipe the oil dipstick clean and remove any spilled oil.
8. Tighten the oil dipstick and lid.
9. Reinstall the maintenance cover.

Cleaning the Air Filter

1. Use the provided screwdriver to loosen the bolts of the maintenance cover, and then remove it.
2. Take off the air filter cover.
3. Take off the foam filter element.
4. Clean the foam filter element with soapy water or a nonflammable solvent and dry it.
5. Add oil to the foam filter element and squeeze out the excess oil. The foam filter element should be wet but should not drip any oil.
6. Place the foam filter element into the air filter.

Note: Make sure that the surface of the foam filter element is in close contact with the air filter, leaving no gap between them. Do not start the generator before reinstalling the air filter as excessive toxic gas may be produced and foreign objects may enter the engine, causing wear to the engine block.

7. Reinstall the air filter cover to its original position and press to secure it.
8. Reinstall the maintenance cover.



Removing the air filter cover

CAUTION • Do not twist the foam filter element, to prevent any damage to it.

1 Clean.	2 Press and air dry (do not twist)	3 Add proper amount of oil	4 Press (do not twist)
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Cleaning the Fuel Filter Strainer

WARNING • Never use fuel in any place near smoke or flames.

CAUTION • Be sure to tighten the fuel cap.

1 Take off the fuel cap and fuel filter screen.	2 Clean the fuel filter screen with fuel.	3 Wipe the filter screen and place it back into the fuel.	4 Reinstall the fuel cap.
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Cleaning the Muffler



WARNING

- Once the generator starts running, the engine and the muffler will become scalding hot. Do not check or perform maintenance until the generator is completely cooled down.

1. Unscrew the bolts.
2. Take off the muffler cap, muffler block and spark plug arrestor.
3. Clean the carbon deposits on the muffler block and the spark plug arrestor gently with a steel wire brush to avoid any damage or scratches to the muffler block and spark plug collector.
4. Check whether the muffler block or the spark plug arrestor is damaged, and replace it if damaged.
5. Reinstall the parts in turn.



Replacing the Rechargeable Battery

If you find that the internal battery is no longer functioning, contact our Customer Service to obtain a new one. The cost of replacement will vary based on your warranty status. Once you have received the new battery, follow these steps to replace the old one:

1. Use the provided screwdriver to loosen the bolts of the maintenance cover, and then remove it.
2. Disconnect both the positive and negative wires from the old battery.
3. Remove the securing elastic strap.
4. Take out the old battery and insert the new one.
5. Reinstall the securing elastic strap.
6. Reconnect the positive and negative wires of the new battery.

Storage and Transportation

If you plan to place this generator into long-term storage, take some storage measures to prevent premature aging of the generator.

|Draining the Fuel

-  **WARNING**
- As fuel is highly volatile and toxic, please carefully read the "Safety Guidelines" for handling instructions.
-  **CAUTION**
- Wipe any spilled fuel away with a clean soft cloth to prevent it from damaging the plastic shell.

- Turn the Engine Switch to **"OFF"**.
Note: When there is no leftover fuel in the generator, skip this step and make sure that the LPG inlet is protected with the dust cover.
- Open the fuel tank cap, take out the fuel filter screen, drain all the fuel from the fuel tank into a temporary fuel tank and reinstall the fuel cap.
- Start the generator. The remaining fuel will be used up in about 20 minutes. The generator will turn off when there is no fuel left.
 - Do not connect any electrical equipment to the generator.
 - The time it takes for the generator to run depends on the remaining amount of fuel inside the fuel tank.
- Use the provided screwdriver to remove the maintenance cover.
- Loosen and remove the oil drain bolt on the carburetor and drain the fuel from the carburetor into the temporary fuel tank.
- Turn the Engine Switch to **"OFF"**.
- Screw in and tighten the oil drain bolt.
- Reinstall the maintenance cover.
- Reinstall the fuel tank cap after the engine cools down completely.

|Storing the Generator

Take the following steps to protect parts such as the engine body and piston rings which are the most susceptible to corrosion.

- Take out the spark plug, inject 10 mL / 0.34 oz. of engine oil, reinstall the spark plug, and pull the Starter Grip for several minutes so that the engine oil can fully lubricate the cylinder block.
- Pull the Starter Grip until it becomes tight (to prevent the cylinder block and valves rusting).
- Wipe the generator's surface clean, place the generator in a well-ventilated and dry place and cover it.

|Rechargeable Battery

Charge the internal battery once every 3 months for a longer storage.

Method 1: Start the generator. The internal battery will be charged while the engine is running.

Method 2: Connect internal battery charging port to a power source using a DC5521 cable.

|Use after storage

If the generator is stored with fuel in the fuel tank and carburetor, conduct servicing as required in the table below.

Storage Duration	Recommended Servicing Procedure to Prevent Difficult Startups
Within one month	No preparation needed
One to two months	Evacuate the fuel and inject fresh fuel

Two months to one year	Evacuate the fuel and inject fresh fuel
	Drain the fuel from Carburetor Drain Cup ①
	Drain the fuel from Sediment Bowl ②
Over one year	Evacuate the fuel and inject fresh fuel
	Drain the fuel from Carburetor Drain Cup ①
	Drain the fuel from Sediment Bowl ②
	Drain the original fuel into a suitable storage container after moving it out of storage and inject fresh fuel before starting it.
① Loosen and remove the oil drain bolt and drain all the fuel out of the carburetor. Drain the fuel into a suitable container, and screw in and tighten the oil drain bolt. ② After turning off the Engine Switch, remove the Sediment Bowl, empty the gasoline from the bowl, reinstall the Sediment Bowl and tighten it.	

|Transportation

 CAUTION

- When moving, storing or operating the generator, do not place it on its side. The engine oil may leak and damage the engine or your property.
- If the generator is constantly running, allow it to cool before being loaded onto the transport vehicle. Hot engines and waste systems may cause burns and can cause certain materials to ignite. To prevent fuel spills during transport, position the generator vertically in the standard operating position, and turn the engine switch to the “OFF” position.
- During transportation, ensure the generator is not dropped or subjected to impacts.

Troubleshooting Guide

Error icons will appear on the screen display when the generator malfunctions.

	High Temperature Alert: Stop operation and move the generator to a well-ventilated area. The alert will automatically disappear once the temperature returns to normal operating levels.
	Maintenance reminder: Refer to the prompts in the EcoFlow app to inspect or maintain the components of the generator.
	Overload Alert: Disconnect some devices connected to the generator to reduce total power output. The alert will automatically disappear once the power output returns to normal levels.
	Engine Oil Alert: Check if the engine oil level is sufficient. If it's low, add the appropriate amount of oil and wait for the error code to clear automatically.
	Low Temperature Alert: Allow the generator to run without any load for three minutes to warm up. The alert will automatically disappear once the temperature returns to normal operating levels. Then, connect the load to the generator.
	Generator Fault Alert: Check the EcoFlow in-app instructions for troubleshooting.

If the problem persists after troubleshooting, contact EcoFlow technical support.

Specifications

Complete Generator Set	
Length × Width × Height	Approx. 480×300×455 mm
Net. Weight	Approx. 21.8 kg
Max. Environment Temperature	40°C
Max. Operating Altitude	3000 feet
Manufacture Year	For details, refer to product label
Generator	
Type	Inverter
AC Rated Voltage	120V
AC Rated Current	16.7A (Gasoline) / 15A (LPG)
Operating Frequency	60Hz
Rated Power	Gasoline: 2000W (Max. 2200W) LPG: 1800W (Max. 2000W)
Engine	
Engine Type	Single cylinder, four-stroke, forced-air cooling, overhead valve
Engine Displacement	98 cc
Type of Fuel	Unleaded Gasoline / LPG
Volume of Fuel Tank	4 L / 1.06 gal.
Continuous Operation Time (Gasoline)	2.8 H (Nominal load)
Noise Level (at a distance of 7 meters)	69 dB (Nominal load)
Generator Engine Oil Volume	400 ml / 0.423 quarts
Spark Plug Model	A5RTC
Start Mode	Electric Start

Circuit Diagram

