



OPERATION MANUAL

RGM08Y Diesel Generator Set

8 kW | 120/240 V | 60 Hz

Yanmar 3TNV80F Engine · Stamford SOL1-J1 Alternator · DSE4620 Controller



READ THIS MANUAL CAREFULLY BEFORE ANY USE.

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Table of Contents

Section 1 – Introduction

Section 2 – Safety

Section 3 – Technical Specifications

Section 4 – Main Components

Section 5 – Starting

Section 6 – Shutdown

Section 7 – Operational Monitoring

Section 8 – Maintenance

Section 9 – Troubleshooting

Section 10 – Storage

Section 11 – Warranty

Section 12 – Appendices

Section 1 — Introduction

The RGM08Y diesel generator set by RoyalGen is a compact, reliable, and sound-attenuated power generation solution designed for prime and standby power applications.

The RGM08Y integrates three world-class components in a robust sound-attenuated enclosure: a Yanmar 3TNV80F-G6GE diesel engine renowned for its reliability and durability, a Stamford SOL1-J1 brushless alternator delivering exceptional power quality, and a DSE4620-06 intelligent controller providing complete automated management of the generator set.

1.1 Standard Features

- **Yanmar Engine** — 3TNV80F-NG6GE
- **Stamford Alternator** — SOL1-J1
- **SmartGen 6 A Battery Charger** — Automatic battery charge maintenance.
- **120 V / 1500 W Engine Block Heater** — Facilitates cold-weather starting.
- **Schneider Circuit Breaker**
- **Quick Drain** — Simplified access for oil and coolant.
- **Integrated 45 L Tank** — Approximately 17 hours of autonomy at 75% load.
- **Low Fuel Level Alarm** — Prevents unplanned shutdowns.
- **LED Light** — Integrated lighting for nighttime interventions.
- **Tier 4 Final / Stage 5 Emissions** — Strictest environmental compliance.

Section 2 — Safety

This section describes the hazards associated with operating the RGM08Y generator set and the mandatory safety measures. All operators and technicians must read and understand this section before any use, installation, or maintenance intervention.

2.1 Safety Warning Hierarchy

This manual uses four warning levels in accordance with industrial safety standards:

DANGER

Indicates a hazardous situation that **WILL** result in death or serious injury.

WARNING

Indicates a hazardous situation that **COULD** result in death or serious injury.

CAUTION

Indicates a hazardous situation that **COULD** result in minor or moderate injury.

i NOTICE

Indicates a situation that could cause property damage or equipment malfunction.

2.2 Fuel and Explosion Hazards

- Diesel fuel is flammable. Keep away from open flames, sparks, and ignition sources.
- Never refuel while the engine is running or hot.
- Use an approved container and a grounded nozzle during refueling.
- Store fuel away from the generator set and any heat source.

⚠ WARNING

Fuel vapors are heavier than air and can accumulate in low areas. Ensure adequate ventilation at all times.

2.3 Burns and Hot Surface Hazards

- The engine, exhaust manifold, muffler, and exhaust pipes reach extremely high temperatures during operation.
- Allow the engine to cool for at least 30 minutes before performing any maintenance.
- Never touch hot surfaces without appropriate protective equipment.

⚠ WARNING

Engine coolant under pressure can cause severe burns. Never open the radiator cap when the engine is hot.

2.4 Electrical Hazards

- All electrical connections must comply with applicable codes (CSA, NEC, local codes).
- Only qualified electricians must perform connections to the building's electrical system.
- Never work on the electrical system while the generator is running or energized.
- Always disconnect the battery negative (-) terminal before working on the electrical system.

DANGER

Risk of electrocution. The generator produces 120/240 V AC. Contact with live conductors can cause death.

DANGER

Never connect the generator to the building

,

s electrical system without an approved and properly installed automatic transfer switch (ATS). Back-feeding can cause death.

2.5 Exhaust Gas and Carbon Monoxide

- The engine produces carbon monoxide (CO), an odorless, colorless, and lethal gas.
- Never operate the generator indoors, in a garage, basement, or any partially enclosed space.
- Ensure the exhaust outlet discharges to the outside of any building.
- Install CO detectors in occupied spaces near the generator room.

DANGER

Carbon monoxide can cause death within minutes. If a CO alarm sounds, immediately evacuate to fresh air and call emergency services.

2.6 Mechanical Hazards

- Keep all panels and guards in place during operation.
- Never reach near moving parts (fan, belts, pulleys) while the engine is running.
- Wear appropriate PPE (safety glasses, gloves, safety footwear) during maintenance.

WARNING

Rotating parts can cause severe injury. Ensure the engine is completely stopped and locked out before any maintenance.

2.7 Battery

- The battery contains sulfuric acid and produces explosive hydrogen gas during charging.
- Keep sparks and open flames away from the battery.
- Wear safety glasses and acid-resistant gloves when handling the battery.
- Connect the positive (+) terminal first; disconnect the negative (-) terminal first.

2.8 General Precautions

- This generator set must only be operated by trained and authorized personnel.
- Comply with all applicable local, provincial, and federal regulations.
- Never modify the generator set without written authorization from RoyalGen.

- Keep a fire extinguisher (ABC type) nearby during operation.
- Post emergency contact information and emergency procedures near the unit.

Section 3 — Technical Specifications

3.1 General Data

Parameter	Value
Model	RGM08Y
Rated Power (Prime / Standby)	8 kW / 8.8 kW
Output Voltage	120/240 V AC
Frequency	60 Hz
Power Factor	1.0 (single-phase)
Rated Current	66.7 A at 120 V / 33.3 A at 240 V
Engine Speed	1800 RPM
Sound Level	68 dB(A) at 1 m / 63 dB(A) at 7 m
Weight	~750 kg
Dimensions (L × W × H)	~1650 × 730 × 1050 mm

3.2 Engine

Parameter	Value
Make / Model	Yanmar 3TNV80F-NG6GE
Type	4-stroke, 3-cylinder inline, liquid-cooled
Displacement	1.108 L

Parameter	Value
Rated Power	10.7 kW at 1800 RPM
Injection System	Indirect injection (pre-combustion chamber)
Governor	Mechanical
Emission Standard	Tier 4 Final / Stage 5
Glow Plug Preheat	4 seconds

3.3 Fuel System

Parameter	Value
Fuel Type	No. 2 Diesel (ASTM D975)
Tank Capacity	45 L
Fuel Consumption at 75% Load	~2.6 L/h
Autonomy at 75% Load	~17 hours
Fuel System	Gravity feed + fuel pump + water separator

3.4 Cooling System

Parameter	Value
Cooling Type	Liquid (closed circuit)
Coolant Capacity	4.2 L
Radiator Cap Pressure	13 PSI
Block Heater	120 V / 500 W (standard)
Thermostat Opening	71 °C

3.5 Lubrication System

Parameter	Value
Oil Type	SAE 10W-30, API CD/CF/CF-4/CI-4
Oil Capacity (with filter)	3.4 L

Parameter	Value
Oil Filter Reference	119305-35151
Oil Change Interval	Every 250 hours or annually

3.6 Air Intake and Exhaust

Parameter	Value
Air Filter Type	Dry paper element
Air Filter Reference	129150-12560
Exhaust Outlet Diameter	2 inches (50.8 mm)
Exhaust Temperature (at outlet)	~450–550 °C

3.7 Alternator

Parameter	Value
Make / Model	Stamford SOL1-J1
Type	Brushless, self-excited, single-bearing
Rated Output	8 kW / 10 kVA
Output Voltage	120/240 V
Frequency	60 Hz
Power Factor	1.0
AVR	AS540
THD (Total Harmonic Distortion)	< 5%
Insulation Class	H
Bearing Replacement Interval	Before 30,000 hours

3.8 Controller

Parameter	Value
Make / Model	Deep Sea Electronics DSE4620-06

Parameter	Value
Display	LCD — True RMS voltage, frequency, oil pressure, coolant temp, fuel level
Operating Modes	Stop/Reset, Auto, Manual/Start
Communication	USB (DSE Configuration Suite)
Battery Voltage	12 V DC

Section 4 — Main Components

This section describes the main subsystems of the RGM08Y generator set and their role in the unit's operation.

4.1 Yanmar 3TNV80F-NG6GE Diesel Engine

The engine is a 4-stroke, 3-cylinder inline, liquid-cooled, naturally aspirated diesel. It produces 10.7 kW at 1800 RPM. Indirect injection via a pre-combustion (swirl) chamber ensures clean combustion compliant with Tier 4 Final / Stage 5 standards. The mechanical governor maintains optimal speed regulation. The glow plug preheating system (4 seconds) ensures reliable starting even in cold weather.

4.2 Stamford SOL1-J1 Alternator

The self-excited brushless alternator produces superior quality current at 120/240 V, 60 Hz. The AS540 automatic voltage regulator (AVR) maintains stable voltage with total harmonic distortion below 5%. The single sealed-bearing design minimizes maintenance (replacement recommended before 30,000 hours). Class H insulation enables reliable operation under demanding conditions. The alternator accepts 100% instantaneous block load.

4.3 DSE4620-06 Controller

The DSE4620-06 intelligent controller provides complete automated monitoring and management of the generator set. It offers three operating modes: Stop/Reset, Auto, and Manual/Start. In Auto mode, it automatically manages the startup, load transfer, and shutdown sequences in response to external signals or utility loss. The display shows real-time True RMS voltage, frequency, oil pressure, coolant temperature, and fuel level.

4.4 Fuel System

The integrated 45-liter tank feeds the engine by gravity and fuel pump. A water separator protects the injection system. A level sensor activates the low fuel alarm to prevent unplanned shutdowns. A drain valve allows periodic tank purging. An optional connection allows feeding from an external tank for extended autonomy.

4.5 Cooling System

The liquid cooling system includes a radiator, thermostat, engine-driven water pump, and fan. Total circuit capacity is 4.2 liters. The radiator cap maintains 13 PSI pressure to raise the boiling point. An electric 120 V / 500 W block heater (standard option) maintains fluid temperature in standby mode to facilitate cold-weather starting.

4.6 Electrical System

The 12 V DC electrical system includes a 1.0 kW starter, a 12 V / 40 A charging alternator, glow plugs, and a SmartGen 6 A automatic battery charger that keeps the battery charged in standby mode. Output circuit breakers protect the 120/240 V AC load circuits.

4.7 Sound-Attenuated Enclosure

The steel sound-attenuated enclosure reduces noise to 68 dB(A) at 1 meter and 63 dB(A) at 7 meters. Access panels allow inspections and routine maintenance. An integrated LED light facilitates interventions in low-light conditions. The enclosure protects components from the elements while ensuring adequate ventilation for engine and alternator cooling.

Section 5 — Starting

5.1 Pre-Start Checklist

- **Engine Oil Level** — Check with the dipstick. Level must be between MIN and MAX marks. Top up if needed (SAE 10W-30, API CD/CF).
- **Coolant Level** — Check in the overflow reservoir or radiator (cold engine only). Top up with a compatible LLC/ELC mixture.
- **Fuel** — Check level. Ensure sufficient reserve for the planned operating duration.
- **Visual Inspection** — Check for any oil, fuel, or coolant leaks around the engine and under the unit.
- **Battery** — Check connections (clean and tight) and electrolyte level if applicable.
- **Circuit Breakers** — Set all output circuit breakers to the OFF position.
- **Exhaust** — Ensure the exhaust outlet is free of any obstruction.
- **Ventilation** — Verify that the enclosure ventilation grilles are not obstructed.
- **DSE4620 Controller** — Verify no active alarms are displayed. Reset if necessary.

5.2 Manual Start

1. Press the **Manual/Start** button on the DSE4620 controller.
2. **Automatic preheat** — The glow plugs activate for 4 seconds. Wait for the cycle to complete (indicator on screen).
3. **Starter engagement** — The starter engages automatically. Do not crank for more than 15 consecutive seconds.
4. **In case of failure** — Wait 30 seconds before another attempt to allow the starter to cool.
5. **Maximum 3 attempts** — If the engine does not start after 3 attempts, do not persist. Refer to Section 9 — Troubleshooting.
6. **No-load warm-up** — Allow the engine to idle without load for 3 to 5 minutes to reach operating temperature.
7. **Check parameters** — On the DSE4620, verify that voltage, frequency, oil pressure, and temperature are within normal ranges.

8. **Load progressively** — Close the circuit breakers and apply load gradually.

5.3 Automatic Start (Auto Mode)

9. Press the **Auto** button on the DSE4620 controller. The display shows AUTO mode.
10. **Standby mode** — The generator awaits an external start signal or detection of a utility loss.
11. **Automatic sequence** — When a signal is received, the DSE4620 automatically executes:
 - Preheat (4 seconds)
 - Engine start
 - Warm-up period
 - Load transfer (via ATS)
 - Normal operation under load
12. **Utility return** — When utility power is restored, the DSE4620 automatically executes:
 - No-load cool-down period
 - Load retransfer to utility
 - Engine shutdown

5.4 New Engine Break-In

13. **First start** — Allow the engine to idle for 15 minutes without load.
14. **First hour** — Vary speed and load. Avoid extended operation at constant load.
15. **First 4 to 5 hours** — Avoid extended operation at minimum or maximum load. Maintain load between 25% and 75%.
16. **First oil change** — Perform the first oil and filter change at 50 hours of operation.

Section 6 — Shutdown

6.1 Normal Shutdown

17. **Reduce load** — Gradually disconnect electrical equipment or set circuit breakers to OFF.
18. **No-load cool-down** — Allow the engine to idle without load for a minimum of 5 minutes. This cool-down period is essential to dissipate heat from the turbocharger and internal components.
19. Press **Stop/Reset** on the DSE4620 controller.
20. **Verify** — Ensure no alarms are displayed after shutdown. Visually inspect the unit for any leaks.

6.2 Automatic Shutdown (Auto Mode)

When the generator set is operating in Auto mode and utility power is restored, the DSE4620 controller automatically manages the shutdown sequence: no-load cool-down period, load retransfer to utility (via ATS), then engine shutdown. No operator intervention is required.

6.3 Emergency Shutdown

21. Immediately press **Stop/Reset** on the DSE4620 controller. The engine stops instantly.
22. Do not restart until the cause of the emergency shutdown has been identified and corrected.
23. Inspect the generator set and identify the cause of the problem before any restart attempt.

Section 7 — Operational Monitoring

7.1 Safety Pictograms and Display Indicators

The DSE4620-06 controller display shows real-time operating parameters. Familiarize yourself with these symbols before commissioning the generator set.

Operating Modes

Mode	Description
Stop/Reset	Generator stopped; alarms reset
Auto	Standby; automatic start on signal or utility loss
Manual/Start	Manual start initiated by operator
Test	Load test mode
Fault	Shutdown triggered by protection

7.2 Control Buttons

The front panel of the DSE4620-06 controller is equipped with dedicated control buttons for direct generator set control:

- **Stop/Reset** — Stops the engine or resets active alarms.
- **Auto** — Places the generator in automatic standby mode.
- **Manual/Start** — Initiates manual start sequence.
- **Test** — Initiates a manual load test.
- **Lamp Test / Mute** — Tests indicator lamps or silences the audible alarm.

7.3 Alarm Codes and Protections

The DSE4620-06 continuously monitors engine and electrical network parameters. It triggers alarms or protection shutdowns when abnormal conditions are detected. Alarms are classified into three categories by severity.

7.3.1 Shutdown Alarms — ● IMMEDIATE ENGINE STOP

The controller immediately stops the engine to prevent damage. The engine cannot restart until the alarm is reset after the problem is corrected.

Alarm	Cause	Action
Low Oil Pressure	Insufficient or degraded oil	Check oil level and quality
High Coolant Temperature	Overheating	Check coolant level, radiator, fan
Overspeed	Speed > 1980 RPM	Check governor, fuel system
Low Coolant Level	Coolant loss	Check for leaks, top up

Alarm	Cause	Action
Fail to Start	Engine did not start after 3 attempts	Check battery, fuel, glow plugs
Emergency Stop	Emergency stop activated	Identify and correct cause

7.3.2 Warning Alarms — • ENGINE CONTINUES OPERATING

The controller displays the alarm on screen and activates the audible indicator, but the engine continues to run. The operator must identify and correct the cause promptly.

Alarm	Cause	Action
Low Fuel Level	Tank below 25%	Refuel promptly
Battery Charge Fault	Charging alternator fault	Check charging alternator
High Coolant Temperature Warning	Temperature approaching limit	Check cooling system
Under-Frequency	Frequency below setpoint	Reduce load

7.3.3 Electrical Trips — ⚡ ELECTRICAL PROTECTION

Electrical trips protect the alternator and load circuits against overloads and electrical faults. The engine is stopped and can only restart after reset.

Trip	Cause	Action
Overcurrent	Load exceeds rated current	Reduce load, check wiring
Short Circuit	Short circuit on load circuit	Identify and correct fault
Over-Voltage / Under-Voltage	Voltage outside normal range	Check AVR, load balance

i NOTICE — Controller Configuration

The DSE4620-06 controller has numerous configurable parameters accessible via the LCD screen menu or the DSE Configuration Suite software via USB.

Section 8 — Maintenance

8.1 Maintenance Schedule

Interval	Task
Daily (or before each use)	Check oil level, coolant level, fuel level; visual inspection for leaks
Every 50 hours	Check V-belt tension; drain water separator; check battery connections
Every 250 hours	Clean air filter; purge fuel tank; clean radiator exterior
Every 500 hours	Change engine oil and filter; replace fuel filter; replace water separator
Every 1000 hours	Replace air filter; check alternator connections and AVR
Every 2000 hours / 2 years	Replace coolant
Before 30,000 hours	Replace alternator bearing

8.2 Engine Oil Change Procedure

24. **Warm the engine** — Run the engine for approximately 5 minutes to warm the oil and suspend contaminants.
25. **Stop the engine** — Shut down the engine and apply LOTO procedures.
26. **Drain the oil** — Place a drain pan under the drain plug. Remove the plug and allow oil to drain completely.
27. **Replace the oil filter** — Remove the old filter. Apply a thin coat of clean oil to the gasket of the new filter (ref. 119305-35151). Install the new filter and torque to 14–17 lb-ft.
28. **Reinstall the drain plug** — Install a new gasket if required. Torque to 40–47 lb-ft.
29. **Fill with new oil** — Pour 3.4 L of API CD/CF/CF-4/CI-4, SAE 10W-30 oil. Do not exceed the MAX mark on the dipstick.
30. **Check for leaks** — Start the engine and let it idle for 2 minutes. Inspect the drain plug and filter for any leaks.
31. **Recheck level** — Stop the engine, wait 2 minutes, then check the level with the dipstick. Top up if necessary.

8.3 Cooling System Maintenance

Check coolant level daily (cold engine). Use a coolant conforming to manufacturer specifications. Replace coolant every 2,000 hours or every 2 years. Regularly inspect hoses for cracks, hardening, or leaks. Clean the radiator exterior with compressed air (low pressure) every 250 hours to maintain cooling efficiency.

8.4 Air Filter Maintenance

Clean the air filter every 250 hours by gently tapping it or blowing compressed air from the inside out (max. 30 PSI). Replace the filter every 500 hours or more frequently in dusty environments. Never operate the engine without an air filter — abrasive particles would irreversibly damage the cylinders.

8.5 Fuel System Maintenance

Replace the fuel filter (ref. 119810-55650 or 119802-55801) every 500 hours. Replace the water separator (ref. 171081-55910) every 500 hours. Drain the water separator every 50 hours. Purge the fuel tank to remove condensation water every 250 hours. After filter replacement, bleed air from the injection system according to Yanmar procedures.

8.6 V-Belt

Check V-belt tension every 50 hours. Deflection should be approximately 10 mm under 10 kg pressure at the center of the longest span. Replace the belt if it shows cracks, fraying, or excessive glazing. When replacing, never force the belt over the pulleys — loosen the charging alternator bracket to facilitate installation.

8.7 Stamford Alternator

The SOL1-J1 brushless alternator requires minimal maintenance. The sealed bearing is designed to be replaced before 30,000 hours. Keep the alternator clean and dry. Periodically inspect output connections and the AS540 AVR regulator.

8.8 Battery

Check battery connections every 50 hours (clean, tight, no corrosion). Clean terminals as needed with a wire brush and apply dielectric grease. Check electrolyte level (conventional batteries) and top up with distilled water if necessary. The SmartGen 5 A automatic charger maintains charge in standby mode — verify its operation periodically.

8.9 Oil Viscosity Guide by Temperature

Temperature Range	Recommended Viscosity
Below -15 °C	SAE 5W-30
-15 °C to +5 °C	SAE 10W-30
+5 °C to +30 °C	SAE 15W-40
Above +30 °C	SAE 20W-50

Section 9 — Troubleshooting

The table below lists the most common problems, probable causes, and recommended solutions. If the problem persists after checks, contact RoyalGen or a qualified technician.

Problem	Probable Cause	Recommended Solution
Engine will not start	Dead or weak battery	Charge or replace battery
Engine will not start	No fuel or clogged fuel filter	Refuel; replace fuel filter
Engine will not start	Glow plugs faulty	Check and replace glow plugs
Engine will not start	Air in fuel system	Bleed injection system per Yanmar procedure
Engine starts then stops	Low fuel level	Refuel
Engine starts then stops	Clogged fuel filter	Replace fuel filter
Engine overheats	Low coolant level	Check for leaks; top up coolant
Engine overheats	Clogged radiator	Clean radiator fins
Engine overheats	Faulty thermostat	Replace thermostat
Low oil pressure alarm	Low oil level	Top up oil to MAX mark
Low oil pressure alarm	Oil too degraded	Change oil and filter
No AC output voltage	AVR fault	Check AS540 AVR connections
No AC output voltage	Tripped circuit breaker	Reset circuit breaker; check load
Unstable frequency	Governor out of adjustment	Contact RoyalGen technician

Problem	Probable Cause	Recommended Solution
Excessive smoke (black)	Overloaded engine or clogged air filter	Reduce load; clean/replace air filter
Excessive smoke (white/blue)	Oil burning or coolant in combustion	Contact RoyalGen technician
Audible alarm active	Active alarm on DSE4620	Read alarm code; correct fault; press Reset

Section 10 — Storage

10.1 Preparation for Extended Storage

If the generator set will not be used for more than 30 days, follow this storage procedure:

32. **Drain engine oil** — Perform a complete oil change and replace the oil filter. Fill with fresh oil to protect internal components against corrosion.
33. **Treat the fuel** — Fill the tank to maximum to reduce condensation. Add a fuel stabilizer according to the stabilizer manufacturer's instructions. Run the engine for 10 minutes to distribute the treated fuel throughout the circuit.
34. **Disconnect the battery** — Disconnect the negative (–) terminal first. Store the battery in a cool, dry location. Recharge the battery every 2 months during storage.
35. **Protect the unit** — Cover the air intake and exhaust outlet with plugs or weather-resistant tape to prevent moisture and insects from entering.
36. **Storage conditions** — Store in a dry, clean, well-ventilated location. Storage temperature: –15 °C to +45 °C. Protect from direct exposure to the elements.

10.2 Return to Service After Storage

37. **Remove protective covers** — Remove all plugs from the air intake and exhaust outlet.
38. **Reconnect the battery** — Connect the positive (+) terminal first, then the negative (–). Check voltage (minimum 12.5 V). Charge if necessary.

39. **Check all levels** — Engine oil, coolant, fuel.

40. **Complete inspection** — Check the condition of hoses, belts, electrical connections, and enclosure. Look for signs of corrosion, rodent damage, or other damage.

41. **Normal start** — Follow the starting procedure in Section 5.2.

42. **Monitor** — Carefully monitor parameters during the first 30 minutes of operation. Check for leaks and alarms.

Section 11 — Warranty

11.1 Warranty Coverage

RoyalGen warrants the RGM08Y generator set against manufacturing defects for a period of:

- **2 years or 2,000 hours** (whichever comes first) on the complete unit.
- **3 years** on the Yanmar engine (per Yanmar's warranty terms).
- **2 years** on the Stamford alternator (per Stamford warranty terms).

The warranty covers parts and labor for defects attributable to manufacturing. It applies from the date of first commissioning.

11.2 Warranty Conditions

- **Proper Maintenance** — Maintenance must be performed in accordance with the schedule and procedures described in Section 8. Keep all maintenance records (invoices, maintenance log).
- **Approved Parts** — Use only replacement parts approved by RoyalGen, Yanmar, or Stamford.
- **Proper Use** — The generator set must be used in accordance with the specifications and procedures described in this manual.

11.3 Exclusions

The warranty does not cover:

- Normal wear of components (filters, belts, battery, fuses, etc.).
- Damage resulting from misuse, overloading, lack of maintenance, or use of non-approved parts.
- Damage caused by extreme environmental conditions, natural disasters, or acts of vandalism.
- Unauthorized modifications not approved by RoyalGen.
- Transportation costs for warranty claims.

i WARRANTY CLAIMS

To make a warranty claim contact your authorised dealer or contact Royalgen at:

Tel: 1 (450) 822-0408

Email: info@royalgen.ca

Address: 120 des Sables, St-Colomban, QC J5K 2N1

Section 12 — Appendices

Appendix A — Replacement Parts

Reference	Description	Interval
119305-35151	Oil filter	500 hours

Reference	Description	Interval
129150-12560	Air filter	500 hours
119810-55650	Fuel filter (primary)	500 hours
119802-55801	Fuel filter (secondary)	500 hours
171081-55910	Water separator	500 hours
SAE 10W-30 API CI-4	Engine oil (3.4 L)	500 hours
LLC/ELC compliant	Coolant (4.2 L)	2000 hours / 2 years

Appendix B — Torque Specifications

B.1 Standard Fasteners (Yanmar)

Bolt Size	Torque (lb-ft)	Torque (N·m)
M6	7–9	10–12
M8	18–22	24–30
M10	36–43	49–58
M12	62–75	84–102

B.2 Specific Components

Component	Torque (lb-ft)	Torque (N·m)
Oil drain plug	40–47	54–64
Oil filter	14–17	19–23
Glow plug	11–14	15–19
Cylinder head bolts	Per Yanmar service manual	Per Yanmar service manual

Appendix C — Contact Information

Item	Details
Company	RoyalGen
Address	120 des Sables, St-Colomban, QC J5K 2N1

Item	Details
Phone	1 (450) 822-0408
Email	info@royalgen.ca
Website	www.royalgen.ca
Hours	Monday to Friday, 8:00 AM – 5:00 PM ET

Appendix D — Maintenance Log

Use the table below to record all maintenance operations performed on the RGM08Y generator set. Keep this log up to date for warranty claims and maintenance tracking.

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