

Commercial generator set Quiet Gasoline™ Series QG 4000



Cummins Onan

Performance you rely on.™



Features and benefits

- Suitable for medium-duty commercial mobile applications
- Microprocessor control with diagnostics
- Smooth, quiet operation
- Sealed connectors
- Full housing with enclosed muffler
- Lightweight, compact
- Overhead valve engine
- One-year/1000-hour limited warranty (commercial)
- For 50 Hz products used in RV/3-year limited warranty

Weight, size and sound level

Weight: 174 lb (83.4 kg)

Size: Length 30.5 in (774.7 mm), width 20.6 in (523.2 mm), height 16.4 in (416.6 mm)

Sound:

60 Hz, 70 dB(A) at 10 ft (3 m), before installation, full load
50 Hz, 65 dB(A) at 10 ft (3 m), before installation, full load

Models and ratings

Model	Fuel	Hz	Watts	Voltage	Amps	PF	Phase	Circuit breaker
4.0KY-FA/6812	Gasoline	60	4000	120	33.3	1.0	1	1-pole, 30 A
3.6KY-FA/6813	LP vapor	60	3600	120	30.0	1.0	1	1-pole, 30 A
4.0KY-FR/6815	Gasoline	60	4000	100 (1,4)	40.0	1.0	1	2-pole, 20 A
4.0KY-FR/6814	Gasoline	60	4000	100 (2,4)	40.0	1.0	1	2-pole, 20 A
4.0KY-FA/6817**	Gasoline	60	4000	120	33.3	1.0	1	1-pole, 30 A
3.3KY-FR/6818	LP vapor	50	3300	230 (3,4,5)	14.3	1.0	1	2-pole, 17 A
3.6KY-FA/7076	Gasoline	50	3600	230 (2)	14.3	1.0	1	2-pole, 17 A
3.6KY-FR/6816	Gasoline	50	3600	230 (3,4, 5)	15.7	1.0	1	2-pole, 17 A

- (1) Isolated neutral, (2) Grounded neutral, (3) Adjustable 220-240, (4) Reconnectable to 110/220, 115/230 or 120/240. (5) Australia/New Zealand wire color, grounded neutral.

- All 60 Hz models operate at 3600 r/min. All 50 Hz models operate at 3000 r/min.

- Ratings apply up to 500 ft (152.4 m) altitude, 104 °F (40 °C) ambient*.

- Maximum power capability decreases 3.5% for each 1000 ft (305 m) above 500 ft and 1% for each 10 °F (5.5 °C) increase in ambient temperature above 104 °F (40 °C).

- Ratings are at intermittent power output. Continuous ratings are 90% of intermittent.

* Ambient is defined as the air temperature measured at the cooling air inlet to the set.

** Evap model

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Standard features

- Microprocessor control with digital voltage regulator
- Starter overcrank protection
- Generator set field overload protection
- Over/under frequency and voltage protection
- Loss of AC sense protection
- Mechanical fault, reverse connections and high battery voltage protection
- 4-point vibration isolation system
- Magnetic circuit breaker
- Automatic resetting of DC circuit overcurrent protection for set wiring and remote start wiring
- Integral enclosure cover and stamped steel base
- Stationary exhaust pipe attachment point
- High stability mechanical governor
- Detects starter faults
- Sealed remote start connector
- Automotive-type starter with automatic start disconnect
- Fuel filter
- Electronic magneto ignition
- USDA Forest Service-approved, spark-arresting muffler
- Cross-flow pressure cooling
- Automatic choke
- Electric fuel pump with positive fuel safety shutoff (gasoline)
- 125 in (3.2 m) generator set output leads
- Electric fuel shutoff solenoid (LPG)
- Intake silencer, sound deadening material and baffles reduce sound level
- Start-stop/prime rocker switch on control with LED status indicator light for set diagnostics

Typical fuel consumption)

Gasoline, Gal/hr (L/hr)

4.0 KY No load 0.29 (1.10)

3.6 KY 0.20 (0.80)

LPG, Gal/hr (L/hr)

3.6 KY 0.36 (1.36)

3.3 KY 0.26 (0.98)

Engine details

Model: Cummins Onan E095H

Design: 4-cycle, OHV,

Cylinders: Single horizontal cylinder

Bore: 3.11 in (79 mm)

Stroke: 2.44 in (62 mm)

Displacement: 18.5 in³ (304 cm³)

Compression ratio: 8.5:1

Oil capacity: 1.6 qt (1.5 L)

Power (max): At 3600 r/min: LPG - 8.6 hp, Gasoline - 9.5 hp; at 3000 r/min: LPG - 7.6 hp, Gasoline - 8.3 hp

Cooling: Cross flow air-pressure type

Cooling air volume:

60 Hz: 300 ft³/min (8.5 m³/min) at 3600 r/min

50 Hz: 250 ft³/min (7.1 m³/min) at 3000 r/min

Fuel system: Combustion air volume:

60 Hz: 19 ft³/min (0.5 m³/min) at 3600 r/min

50 Hz: 16 ft³/min (0.45 m³/min) at 3000 r/min

Starting system: Remote, 12 V, 3-wire negative ground

Starter: Automotive type with environmentally protected pinion; automatic start disconnect

Ignition system: Electronic magneto type

Lubrication: Splash lubrication

Cylinder crankcase: Aluminum alloy with iron

cylinder liner cast into the block, aluminum alloy oil base

Cylinder head: Aluminum, valves in head, removable

Electric fuel pump: Positive fuel shutoff (3 psi), fuel lift 3 ft (914 mm)

Air cleaner: Replaceable dry element

Sidedraft carburetor: KY (gasoline), patented automatic choke

Vapor withdrawal system with demand regulator: KY (LPG)

Half load

0.48 (1.80)

0.37 (1.40)

0.57 (2.16)

0.52 (1.97)

Full load

0.71 (2.70)

0.58 (2.20)

0.73 (2.76)

0.68 (2.57)

Alternator details

Design: Cummins Onan, revolving field, AC, 2-pole self-excited. Permanently aligned to engine by a tapered shaft. Drip-proof construction

Insulation system: Class F, per NEMA MG1-1.65 and BS 2757

Cooling: Direct drive centrifugal blower; air required; includes engine cooling air volume:

60-Hz: 300 ft³/min (8.5 m³/min)

50 Hz: 250 ft³/min (7.1 m³/min)

Cast aluminum housing for excellent heat transfer

Rotor: Laminated electrical steel assembly press fitted to shaft, balanced. Heavy insulated copper wire windings. Amortisseur windings for improved waveform and motor starting

Stator: Laminated electrical steel assembly. Heavy insulated copper wire windings

DC brushes: Electrographic; long life

Bearing: Double-sealed, pre-lubricated ball bearing

Regulator: Microprocessor control with digital voltage regulator

Generator set performance

Voltage regulation:

Frequency regulation:

No load - full load

±2.5%

±2.5%

Constant load

±1%

±1%

- **Air conditioner starting:** 60 Hz: Gasoline, one 13500 Btu air conditioner with 2000 W base load at 500 ft (152.4 m) and 100° F (38° C).

- **Frequency and voltage regulation:** Exceeds requirements of ANSI/RVIA EGS-1-1998.

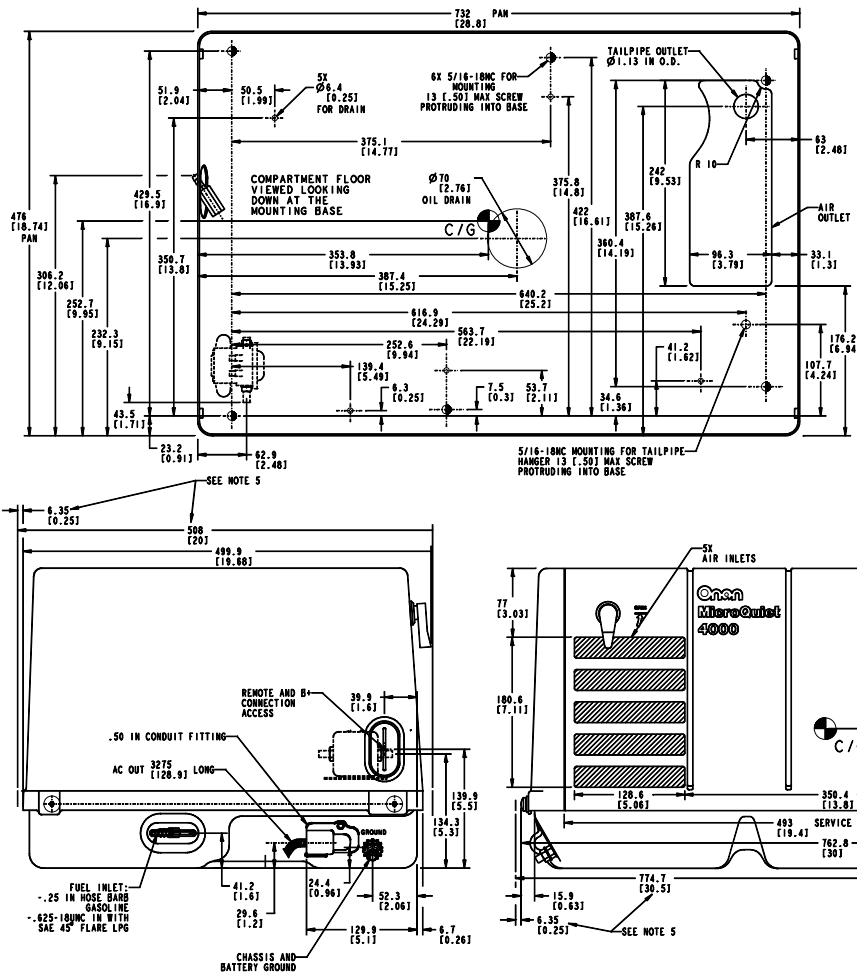
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Basic dimensions



NOTES:

1. PRIMARY DIMENSIONS ARE MILLIMETERS.
2. COMPARTMENT ACCESS SHALL ALLOW REMOVAL AND REPLACEMENT OF SERVICE DOOR AND ACCESS TO THE FOLLOWING SERVICEABLE COMPONENTS:
 START-STOP SWITCH, FUSE, CIRCUIT BREAKER, OIL FILL AND CHECK, AIR CLEANER ELEMENT, IDLER STOP AND CHOKE ADJUSTMENTS, SPARK PLUG, VALVE COVER, START SOLENOID
3. MIN UNIT CLEARANCE FROM COMPARTMENT SURFACES:

TOP	12.5	.50	IN
ENGINE END	6.4	.25	IN
GEN END	6.4	.25	IN
SERVICE SIDE **	6.4	.25	IN
BACKSIDE	6.4	.25	IN
MIN FREE AIR			
INLET	250CM ²	40	IN ²

 ** SERVICE SIDE CLEARANCE OF .25 IN REQUIRES DIRECT ALIGNMENT OF SET AIR INLET AND OPENING IN ACCESS DOOR.
 IF COMPARTMENT AIR INLET IS LOCATED ELSEWHERE, 1.50 IN MIN IS REQUIRED BETWEEN SET AND ACCESS DOOR TO MAINTAIN 40 IN² FREE AIR INLET.
 FOR DETAILED INSTALLATION SIZE REQUIREMENTS SEE:
 539-1546 TEMPLATE-COMPARTMENT
 539-1535 TEMPLATE-UNDERFLOOR
4. UNIT WEIGHT WITH OIL:

60	HZ	79	KG	174	LBS
50	HZ	84	KG	184	LBS
5. MINIMUM INSTALLATION SIZE IS 14.4 T 20 X 30.5 INCHES AND VARIES WITH MOUNTING KIT USED AND SERVICE DOOR ACCESS.

Note: This outline drawing is provided for general reference only and is not intended for design or installation. For more information see Operation and Installation manuals or obtain drawing 500-3297 and wiring diagram from your distributor/dealer.

Options and accessories

- Standard under floor mounting kit (P/N 403-3670) bolts through floor
- Template, (P/N 539-1535-01) to use with the mounting kit (P/N 403-3670), may also be ordered
- Template for compartment mount (P/N 539-1546-01)
- Base adapter under floor mounting kit (P/N 403-3630). Allows unit to be mounted using mounting kit. Can be used with housing kit (P/N 405-4241) or equivalent
- Housing kit for under floor mounting (P/N 405-4241) requires base adapter (P/N 403-3630)
- Remote control panel including start-stop/prime switch with status indicator light (P/N 300-5331)
- Remote control panel including start-stop/prime switch with status indicator light and hour meter (P/N 300-5332)
- Remote control panel including start-stop/prime switch with status indicator light and DC voltmeter (P/N 300-5333)
- Remote control pigtail adapter (P/N 305-0979)
- Remote control plug and wire harness, 10 ft (P/N 338-3489-01), 30 ft (P/N 338-3489-02)
- Exhaust tailpipe kit (P/N 155-2845) tailpipe and special hanger
- Exhaust kit, 1.5 in (P/N 155-2847) 90° elbow
- Exhaust kit adapter (P/N 155-2850) straight tube adapter

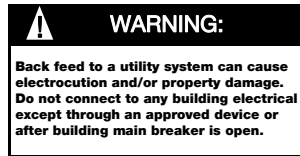
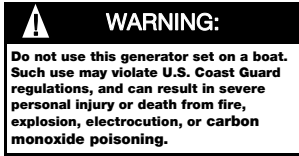
Standards and testing

- Tested at extremes of temperature -20 °F (-29 °C) to 120 °F (49 °C) for starting and operation
- Tested with commercial loads
- Tested in high humidity conditions
- Tested in salt spray conditions
- Tested in heavy air borne dust conditions
- Field test program
- This generator set meets emissions regulations for U.S. EPA PH2 small Engines and 2002-2005 California SI SORE
- This generator set was designed and manufactured in facilities certified to ISO 9001
- CSA Certified for CSA C22.2 std 100 and std 14 (60 Hz - 120 V models only)



Warranty policy

The Cummins Onan limited warranty covers virtually everything except routine maintenance for the first year that you own your generator set, or the first 1,000 hours of operation, whichever comes first. In addition, it includes a free 90-day adjustment policy, which provides that Cummins Inc. will make minor adjustments to your new generator set during the first three months you own it - free of charge!



After sale support

Largest distributor/dealer support network

Cummins Onan generator sets are supported by the largest and best trained worldwide certified distributor/dealer network in the industry. This network of knowledgeable Cummins Onan distributor/dealers will help you select and install the right generator set and accessories to meet the requirements of your specific application. This same network offers a complete selection of commonly used generator set maintenance parts, accessories and products plus manuals and specification sheets. Plus, they can answer your questions regarding proper operation, maintenance schedules and more.

Manuals: Operation and installation manuals ship with the generator set. To obtain additional copies or other manuals for this model, see your Cummins Onan distributor/dealer and request the following manual numbers: Operation (981-0155), Installation (981-0321), Parts (981-0246), Service (981-0530).

To easily locate the nearest Cummins Onan distributor/dealer in your area, or for more information, contact us at 1-800-888-6626 (or 763-574-5000), or visit www.cumminsonan.com.

Contact your distributor/dealer for more information

Cummins Onan

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