Specification Sheet

Cummins RV Generator Onan QG 4000iDF



Features and Benefits

- Computer-controlled variable speed operation matches engine speed to load demand, minimizing noise level and vibration.
- Dual fuel system allows gasoline or liquid propane vapor providing installation flexibility
- No fuel return line necessary - EFI gasoline
- EVAP model for specialized applications
- High power quality with inverted electrical output for sensitive RV loads.
- J1939 communications capable
- Increased oil capacity,reduced oil consumption, low oil shutdown switch, high oil temperature sensor, allows for no required oil checks between recommended oil changes.
- Semi focalized isolation system to minimize vibration
- Completely enclosed with muffler, quick and easy to install.
- 3-year limited warranty
- Low fuel consumption

Weight, Size and Sound Level

Weight	144 lbs	(65.2 kg)
Length	30.0 in	(762 mm)
Width	20.3 in	(516 mm)
Height	14.0 in	(353 mm)
Sound	63 dB(A)	Readings at 10 ft (3 m) half load

- Meets National Park Service sound level requirements (60 dB(A) @ 50 ft) for use in national parks.
- Typical installation will further reduce sound level.

Model	UPC
4HGLDA	00860014973505

Models and Ratings

Model	Fuel	Hz	RPM	Watts	Voltage	Amps	Phase	Circuit breaker
4.0HGLDA	Gasoline/LP	60	2400-2900	4000	120	33.3	1	Single Pole, 30A

- Ambient conditions for rated power output with muffler and RV enclosure, per ISO 8528-1:
- Temperature: 77° F (25° C)
- Altitude: 500 ft (152.4 m), (97.7 kPa dry)
- Typical power output change based on ambient conditions:
- Temperature: Power output decreases 1% for every 10° F (5.5° C) increase
- Altitude: Power output decreases 3.5% for every 1000 ft (305 m) increase

* All model year 2024 and later gasoline-fueled spark-ignited small off-road engines rated at equal to or less than 19 kilowatts, and equipment utilizing such engines must meet the evaporative emission requirements as specified in California Code of Regulations, Title 13, Division 3, Chapter 15, Article 1, and 40 CFR 1054.112, and 40 CFR 1060.

Operating Temperature Range

	Low	High
Gasoline	-22° F (-30° C)	104° F (40° C)
LPG	-0° F (-18° C)	104° F (40° C)

- Ambient air temperature measurement.

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Standard Features

- Cummins sound-attenuating enclosure
- Computer overload control to prevent nuisance circuit breaker tripping
- 3-point focalized mounting system with vibration isolators
- Dual Fuel System with ECU control
- Permanent Magnet Alternator (PMA)
- Closed Loop Electronic fuel injection (EFI) for clean, smooth running under all conditions
- Enclosed aluminized steel catalytic muffler with vibration attenuating flex tube
- USDA Forest Service approved spark arrestor
- Single-side service
- Oil over temperature and low oil level shutdown
- Inverter temperature monitoring & shutdown
- Easy fuel switching capability
- Integrated start/stop switch
- Sealed remote start connector
- One-Touch Electric start
- Magnetic circuit breaker
- 120 in (3 m) generator set output leads 10 AWG
- Electronically controlled ignition
- Standard onboard diagnostic capability
- J1939 communication capability

Engine Details

Design: 4-cycle, single cylinder, OHV
Displacement: 23.7 in^3 (389 cm^3)
Compression Ratio: 8.5:1
Power: Gasoline: 8.5 bhp, LPG: 7.8 bhp
Cooling: Pressurized air
Cooling Air Volume: 268 ft^3/m (7.63 m^3/min) at full load
Fuel System: (Gasoline) Electric fuel transfer pump, max fuel lift 3 ft (914 mm), internal high-pressure injection pump module
LPG Fuel Supply: Minimum 50,000 BTU required
Combustion Air: Gasoline:12 ft^3/m (0.34 m^3/min), LPG: 9.9 ft^3/m (0.28 m^3/min),
Ignition System: Electronically controlled
Starting System: Remote, 12 V, 3-wire negative ground; start-stop rocker switch on control; connector for remote start harness
Lubrication: Splash lubrication
Oil Capacity: 2.0 qt (1.9 L)
Cylinder Crankcase: Aluminum alloy
Crankcase Cover: Aluminum alloy
Cylinder Head: Aluminum alloy

Average Fuel Consumption

Gasoline	No load	Half load	Full load
4.0HGLDA	0.17 gal/h (0.65L/h)	0.33 gal/h (1.24 L/h)	0.52 gal/h (1.95 L/h)
LPG	No load	Half load	Full load
4.0HGLDA	0.2 Gal/h (1 lb/h) 0.45 kg/h	0.4 Gal/h (2.1 lb/h)0.93 kg/h	0.58 Gal/h (3.1 lb/h) 1.4 kg/h

Alternator Details

Design: permanent magnet
Insulation System and Temperature Rise: Class F insulation system meets ANSI/RVIA EGS-1 standard and CSA C22.2 No. 100:14 temperature requirements.
Bearings: None
DC Brushes: None
Exciter system: None

Generator Set Performance

Air Conditioner Operation:
4.0kW generator set will start and run one 15000 Btu high efficiency air conditioner plus 2000-Watt base load at 40°C and 500ft. 4.0kW generator set will start and run one 15000 Btu high efficiency air conditioner with no additional base load at 50°C and 5000ft.
Voltage Regulation: Exceeds requirements of ANSI/RVIA EGS-1 ±10%
Frequency Regulation: Exceeds requirements of ANSI/RVIA EGS-1 ± 5%

Note: See your Cummins distributor or authorized Cummins service dealer for a listing of approved air conditioners

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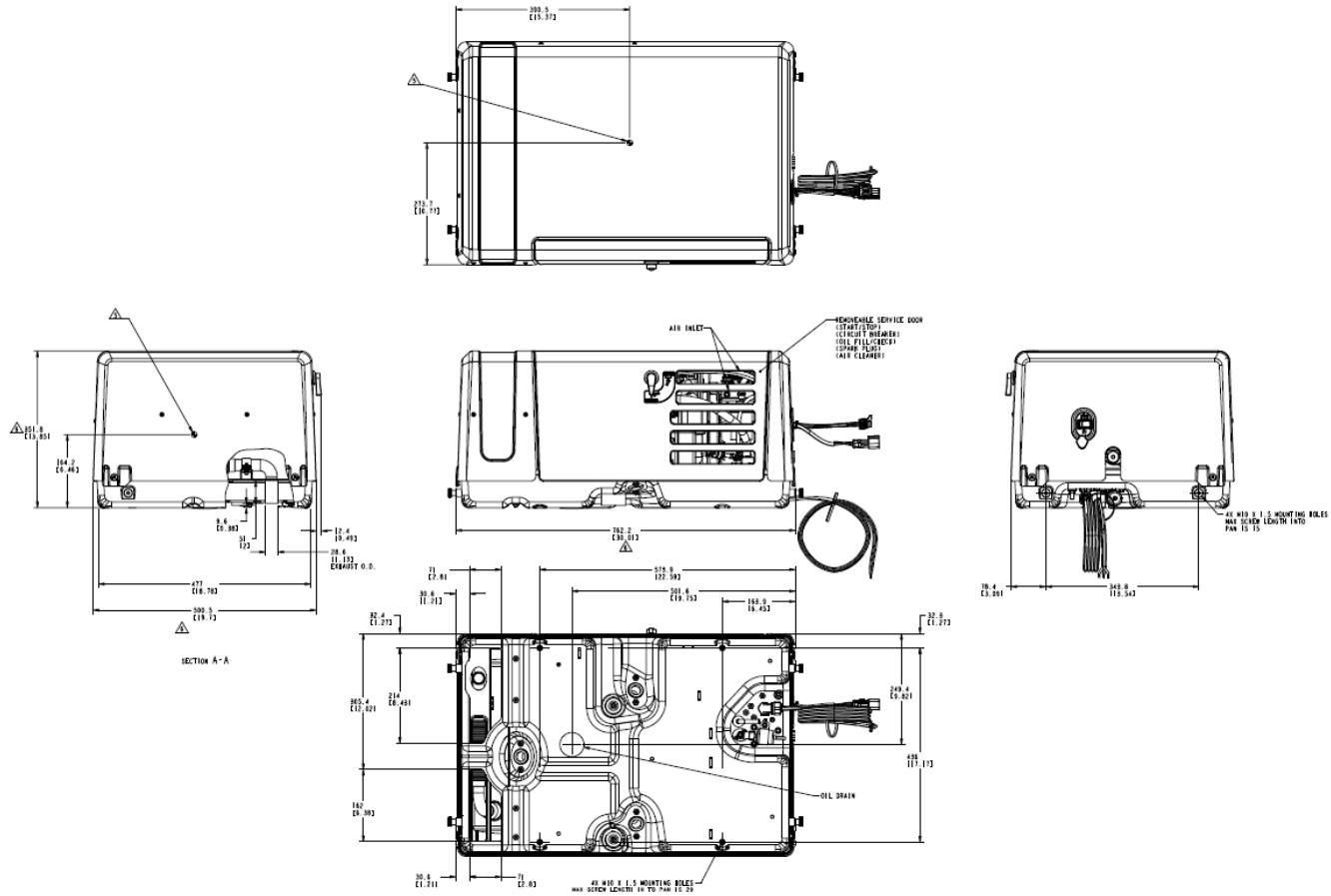
Basic Dimensions

Dimensions mm



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 A060H232 drawing from your distributor/dealer.

Accessories

- Under floor mounting kit (P/N A074W554)
- Remote start/stop rocker switch (P/N 300-5331)
- Remote control with start/stop switch and running time meter (P/N 300-5332)
- Remote control with start/stop switch and DC voltmeter (P/N 300-5333)
- Remote control plug and wire harness 10 ft (P/N 338-3489-01), 30 ft (P/N 338-3489-02)
- Energy Command auto generator start EC-AGS+ (P/N A065U664)

*Additional accessories are listed in the Onan Accessories Guide
https://cumminsapps.com/dealer

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Testing for RV Application

- Tested at extremes of temperature -22 °F (-30 °C) to 104 °F (40 °C) for starting and operation
- Tested with RV loads
- Tested installed; Cummins owned RVs used for product development testing
- Tested in high humidity conditions
- Tested in salt spray conditions
- Field test program
- Inc. per ANSI/RVIA EGS-1 and CSA-certified per Std. 100 Motors and Generators.
- This generator set was designed and manufactured in facilities certified to ISO 9001
- Meet applicable U.S. EPA and California emissions standards

Warranty Policy

The limited warranty covers any failures of the product resulting from a defect in material or factory workmanship under normal use and service for 3 years from warranty start date or 2,000 hours, whichever occurs first. During the first two years, parts and labor will be covered for all warrantable failures except routine maintenance. During the third year, parts and labor will be covered for major powertrain and generator components. This 3-year, 2000-hour warranty coverage applies to RV generator sets used in RV application. For RV generators used in non-RV application, warranty coverage duration is 1 year from warranty start date or 1,000 hours, whichever occurs first.

After Sale Support

Complete Line of Parts and Accessories:

Cummins Inc. offers replacement and tune-up parts, accessories, oil and maintenance chemicals - all specially designed to help keep your Onan generator set running at peak performance. Cummins Inc. also provides genuine Green Label Parts™ that exactly match generator set specifications and will help maximize power output and extend the life of your generator set.



Largest Distributor/Dealer Support

Network: Onan generator sets are supported by the largest and best trained worldwide authorized distributor/dealer network in the industry. This network of knowledgeable Cummins 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. They can answer your questions regarding proper operation, maintenance schedules and more.

Manuals: Quick start guides ship with the generator set. To obtain additional copies or other manuals for this model, see your Cummins sales or service representatives and request the following manual numbers: Operator (A080H582), Installation (A080H583), Parts (A080M282), Service (A080H584).

To easily locate the nearest Cummins distributor/dealer in your area, or for more information, contact us at 1-800-CUMMINS, or www.power.cummins.com

! WARNING:

Do not use this generator set on a boat. Such use may violate U.S. Coast Guard regulations, and can result in severe personal injury or death from fire, explosion, electrocution, or carbon monoxide poisoning.

! WARNING:

Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building electrical except through an approved device or after building main breaker is open.

Contact your distributor/dealer for more information.

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