

# Commercial generator set Quiet Gasoline™ Series QG 2800



## Cummins Onan

Performance you rely on.™



### Features and Benefits

- Ideal for light duty applications with critical size and low noise requirements
- Lightweight
- Gasoline or LP fueled
- Quietest generator sets of their size
- Easy maintenance with single-side service
- Completely enclosed, quick, easy to install
- 1-year/1000-hour limited warranty (commercial)
- For 50 Hz products used in RV/3-year limited warranty
- Low fuel consumption

### Weight, size and sound level

Weight: 113 lbs (51 kg)

Size: Length 24.0 in (609.5 mm), width 16.4 in (417 mm), height 12.25 in (310 mm)

Sound:

- 60 Hz, Readings at 10 ft (3 m) half load: 72 dB(A) before installation, full load
- 50 Hz, Readings at 10 ft (3 m) half load: 68 dB(A) before installation, full load

### Models and ratings

Model	Fuel	Hz	Watts	Voltage	Amps	PF	Phase	Circuit breaker
2.8 KV-FA/6821	Gasoline	60	2800	120	23.3	1.0	1	(1) 25 A
2.8 KV-FR/6823	Gasoline	60	2800	100	28	1.0	1	(1) 30 A
2.8 KV-FA/6819*	Gasoline	60	2800	120	23.3	1.0	1	(1) 25 A
2.5 KV-FA/6822	LP vapor	60	2500	120	20.8	1.0	1	(1) 25 A
2.3 KV-FR/6824	Gasoline	50	2300	230(1)	10	1.0	1	(1) 10 A
2.0 KV-FR/6820	LP vapor	50	2000	230	8.7	1.0	1	(1) 10 A

- Ratings apply to altitudes up to 500 ft (152.4 m), 85 °F (29.4 °C) ambient.
- Maximum power capability decreases 3.5% for each 1000 ft (305 m) above 500 ft (152.4 m) and 1% for each 10 °F (5.5 °C) increase in ambient temperature above 85 °F (29 °C).
- Ratings are intermittent power output. Continuous ratings are 90% of intermittent.
- All 60 Hz models operate at 3600 r/min.
- All 50 Hz models operate at 3000 r/min.

\*Evap model

(1) Australia/New Zealand wire color, grounded neutral.

Effective January 1, 2011, gasoline generator sets on trailers, diesel chassis or any other non-motorized mobile apparatus must have an EVAP generator set, approved tank, EVAP canister, hoses and fittings all meeting the CARB Tier 3 and EPA phase 3 standards and specifications. This law applies in all 50 states.

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## Standard features

- Cummins Onan sound attenuating enclosure
- Focalized mounting system with vibration isolators
- Cross-flow cooling
- Sheet steel drip controlling base
- Enclosed muffler
- USDA Forest Service approved spark arrestor muffler
- Adjustable mechanical governor
- Automatic choke
- Engine air preheat
- Overhead valves
- Single side service
- Low oil level shutdown
- Electric fuel pump (gasoline)
- Electric solenoid (LPG)
- Mounted control panel
- Connector for remote 3-wire start
- Electric start
- Fused DC circuits to protect set wiring and remote control wiring
- Magnetic circuit breaker
- 60 in (1.5 m) generator output leads
- Solid-state ignition

## Average fuel consumption

Gasoline, Gal/hr (L/hr)	No load
2.8 KV	0.2 (0.8)
2.3 KV	0.2 (0.8)
LP, Gal/hr (L/hr)	
2.5 KV	0.2 (0.8)
2.0 KV	0.2 (0.8)

## Engine details

Model: Cummins Onan GH-200  
Design: 4-cycle, single cylinder, OHV  
Displacement: 12 in<sup>3</sup> (197 cm<sup>3</sup>)  
Compression ratio: 8.5:1  
Oil capacity: 1 qt (0.95 L)  
Power (max): At 3600 r/min: 7.0 bhp  
Cooling: Pressurized air  
Fuel system:  
Gasoline: Electric fuel pump, fuel lift 3 ft (914 mm)  
LPG: Electric fuel solenoid; automatic choke  
Cooling air volume:  
Gasoline:  
60 Hz: 300 ft<sup>3</sup>/min (8.5 m<sup>3</sup>/min) at 3600 r/min  
50 Hz: 250 ft<sup>3</sup>/min (7.1 m<sup>3</sup>/min) at 3000 r/min  
LPG:  
60 Hz: 300 ft<sup>3</sup>/min (8.5 m<sup>3</sup>/min) at 3600 r/min  
Combustion air volume:  
60 Hz: 12.5 ft<sup>3</sup>/min (0.35 m<sup>3</sup>/min) at 3600 r/min  
50 Hz: 10.4 ft<sup>3</sup>/min (0.3 m<sup>3</sup>/min) at 3000 r/min  
Starting system: Remote, 12 V, 3-wire negative ground  
- Start-stop rocker switch on control  
- Connector for remote start cable  
Ignition system: Breakerless, electronic  
Lubrication: Splash lubrication  
Cylinder crankcase: Alloy aluminum with iron cylinder liner cast into the block  
Aluminum oil base  
Cylinder head: Alloy aluminum, removable

Half load	Full load
0.3 (1.14)	0.43 (1.63)
0.23 (0.9)	0.4 (1.5)
0.34 (1.28)	0.55 (2.08)
0.3 (1.14)	0.45 (1.7)

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## Alternator details

Design: Cummins Onan 2-pole self-excited revolving field permanently aligned to engine by a tapered shaft, drip-proof construction  
Insulation system: Meets requirements of NEMA MG-1 and CSA C22.2, No. 100, Motors and Generators  
Cooling: Direct drive centrifugal blower  
Rotor: Laminated electrical steel assembly press fitted to shaft, balanced, heavy insulated copper wire windings  
Stator: Laminated electrical steel assembly skewed for excellent waveform. Heavy insulated copper wire windings  
Voltage regulator: Electronic  
DC brushes: Electrographitic

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## Generator set performance

Air conditioner starting:  
60 Hz: at 500 ft (152.4 m) and 100 °F (38 °C). The 2.8 KV generator set will start and run one approved 13500 Btu air conditioner (14.7 cooling amps or less) plus a 600 W base load, or one approved 11000 Btu air conditioner plus a 900 W base load. The 2.5 KV generator set will start and run one approved 11000 Btu air conditioner plus a 300 W base load  
50 Hz: at 500 ft (152.4 m) and 100 °F (38 °C). The 2.0 KV will start and run one 7800 Btu air conditioner (5.5 cooling amps or less) with a 300 W base load  
Voltage regulation: +/- 10% no load to full load  
Frequency regulation: +/- 5% no load to full load

Note: See your Cummins Onan distributor/dealer for a listing of approved air conditioners.

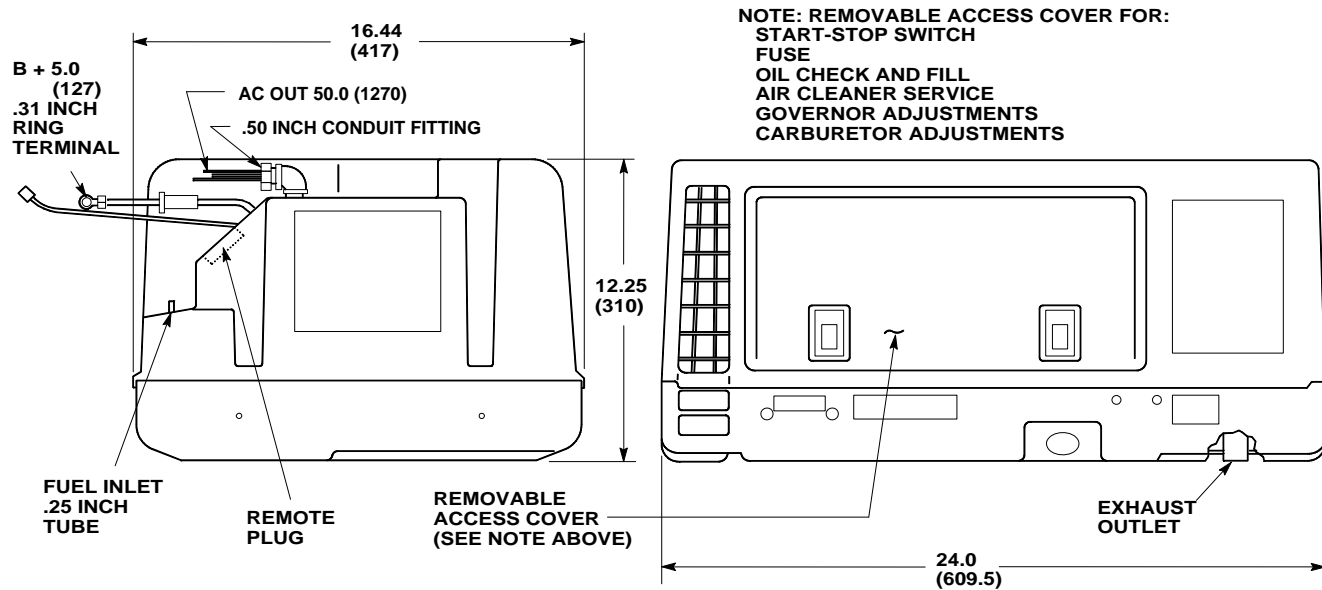
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## Basic dimensions



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 500-2182 and wiring diagram from your distributor/dealer.

## Options and accessories

- Remote start/stop rocker switch (P/N 300-4936)
- Remote control with start/stop switch and running time meter (P/N 300-4937)
- Remote control plug and wire harness 10 ft (P/N 338-3489-01), 30 ft (P/N 338-3489-02)
- Remote control with start/stop switch and DC voltmeter (P/N 300-4938)
- Remote control pigtail kit (P/N 305-0979)
- Tailpipe for 18-25 in exhaust installations (P/N 155-2325)
- Exhaust kit for installations over 25 in (P/N 155-2324)
- Exhaust resonator (P/N 155-2449)
- Exhaust down tube kit (P/N 155-2425)
- Compartment mount installation template (P/N 539-1386)

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## Standards and testing


- Tested at extremes of temperature -20 °F (-29 °C) for starting and operation
- Tested with commercial loads
- Tested in high humidity conditions
- Tested in salt spray conditions
- Tested in heavy airborne dust conditions
- Field test program
- 60 Hz models meet applicable U.S. EPA and California emissions standards.
- 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 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!

 <b>WARNING:</b> 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.
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 <b>WARNING:</b> 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.
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## 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 (981-0153), Installation (981-0604), Parts (981-0238), Service (981-0518).

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](http://www.cumminsonan.com).

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Contact your distributor/dealer for more information.

# Cummins Onan

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