

# RV generator set

## Quiet Gasoline™ Series

### RV QG 2800



# Cummins Onan

Performance you rely on.™



## Features and benefits

- Perfect for travel trailers, truck campers and folding camping trailers.
- Runs one air conditioner with power to spare.
- Lightweight, compact and easy to install.
- Easy maintenance with single-side service.
- Low fuel consumption.
- Gasoline or LP fueled.
- 3-year limited warranty.

## Weight, size and sound level

<b>Weight</b>	107 lbs	(48 kg)
<b>Length</b>	19.6 in	(498 mm)
<b>Width</b>	16.7 in	(424 mm)
<b>Height</b>	12.3 in	(312 mm)
<b>Sound</b>	60 Hz	
	71dB(A)	(readings at 10 ft (3 m) half load)
	50 Hz	
	64 dB(A)	(readings at 10 ft (3 m) half load)

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

## Models and ratings

Model	Fuel	Hz	RPM	Watts	Voltage	Amps	Phase	Circuit breaker
<b>2.8 KVD-2090</b>	Gasoline	60	3600	2800	120	23.3	1	25 A
<b>2.5 KVD-2089</b>	LP vapor	60	3600	2500	120	20.8	1	25 A
<b>2.3 KVD-3729</b>	Gasoline	50	3000	2300	230	10.0	1	10 A
<b>2.0 KVD-3730</b>	LP vapor	50	3000	2000	230	8.7	1	10 A
<b>2.3 KVD-5905</b>	Gasoline	50	3000	2300	230(1)	10.0	1	10 A
<b>2.0 KVD-5904</b>	LP vapor	50	3000	2000	230(1)	8.7	1	10 A

(1) Australia/New Zealand wire colors.

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), (99 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

Ratings represent minimums. Actual performance may be significantly higher based on installation and operating conditions.

## Operating temperature range

	Low	High
<b>Gasoline</b>	-20° F (-29° C)	120° F (49° C)
<b>LP</b>	0° F (-18° C)	120° F (49° C)

- Depends upon LP tank capacity, surface area and butane content of LPG.

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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
- USDA Forest Service approved spark arrestor muffler kits available
- Adjustable mechanical governor
- Automatic choke
- Overhead valves
- Single-side service
- Electric fuel pump (gasoline); electric fuel solenoid (LP)
- Mounted control panel
- Sealed remote start connector
- Electric start
- Fused DC circuits to protect set wiring and remote control wiring
- Magnetic circuit breaker
- 120 in (3 m) generator set output leads
- Solid-state ignition

### Average fuel consumption:

<b>Gasoline</b>	<b>No load</b>	<b>Half load</b>	<b>Full load</b>
<b>60 Hz 2.8 KVD</b>	0.2 Gal/h (0.8 L/h)	0.3 Gal/h (1.1 L/h)	0.4 Gal/h (1.6 L/h)
<b>50 Hz 2.3 KVD</b>	0.2 Gal/h (0.8 L/h)	0.2 Gal/h (0.9 L/h)	0.4 Gal/h (1.5 L/h)
<b>LP</b>	<b>No load</b>	<b>Half load</b>	<b>Full load</b>
<b>60 Hz 2.5 KVD</b>	0.2 Gal/h (0.9 lb/h) 0.4 kg/h	0.4 Gal/h (1.5 lb/h) 0.7 kg/h	0.6 Gal/h (2.4 lb/h) 1.1 kg/h
<b>50 Hz 2.0 KVD</b>	0.2 Gal/h (0.9 lb/h) 0.4 kg/h	0.3 Gal/h (1.3 lb/h) 0.6 kg/h	0.5 Gal/h (2.2 lb/h) 1.0 kg/h

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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 and temperature rise:** Meets ANSI/RVIA EGS-1, BS-4999 standards and CSA Electrical Bulletin 946 standards

**Cooling:** Direct drive centrifugal blower, air required; cast aluminum housing for excellent heat transfer

**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:** Electrographite

## Engine detail

**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

**Power:** 7.0 bhp (max) at 3600 r/min

**Cooling:** Pressurized air

**Fuel system:** (Gasoline) electric fuel pump, fuel lift 3 ft (914 mm); (LP) electric fuel solenoid; automatic choke

**Cooling air volume:** Includes engine cooling air

**60 Hz:** at 3600 r/min 300 ft<sup>3</sup>/m (8.5 m<sup>3</sup>/min)

**50 Hz:** at 3000 r/min 250 ft<sup>3</sup>/m (7.1 m<sup>3</sup>/min)

**Combustion Air:**

**60 Hz:** at 3600 r/min 12.5 ft<sup>3</sup>/m (0.35 m<sup>3</sup>/min)

**50 Hz:** at 3000 r/min 10.4 ft<sup>3</sup>/m (0.3 m<sup>3</sup>/min)

**Ignition system:** Breakerless, electronic

**Starting system:** Remote, 12 V, 3-wire negative ground, start-stop rocker switch on control Connector for remote start cable

**Lubrication:** Splash lubrication

**Oil capacity:** 1 qt (0.95 L)

**Cylinder crankcase:** Alloy aluminum with iron cylinder liner cast into the block

**Oil base:** Aluminum

**Cylinder head:** Alloy aluminum, removable

## Generator set performance

**Air conditioner operation:**

**60 Hz:** at 500 ft. (152.4 m and 100° F (38° C);

2.8 KVD 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 1000 W base load;

2.5 KVD will start and run one approved 13500 Btu air conditioner plus a 300 W base load, or one approved 11000 Btu air conditioner plus a 600 W base load

**50 Hz:** at 500 ft (152.4 m) and 100° F (38° C)

2.3 KVD will start and run one 7800 Btu air conditioner (5.5 cooling amps or less) with a 600 W base load;

2.0 KVD will start and run one 7800 Btu air conditioner (5.5 cooling amps or less) with a 300 W base load

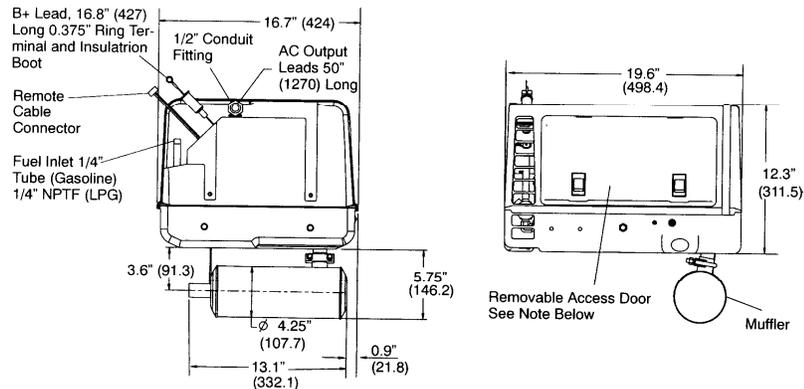
**Voltage regulation:** Exceeds requirements of ANSI/RVIA EGS-1 ±10%

**Frequency regulation:** Exceeds requirements of ANSI/RVIA EGA-1 ± 5%

**Note:** Air conditioners operating on engine driven generator set require "easy start" circuits.

## Basic dimensions

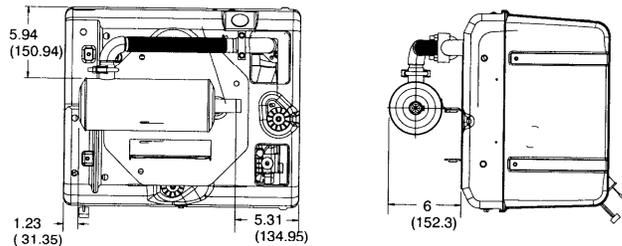
### Muffler Kit 541-0618 - Not for use on 50 Hz models



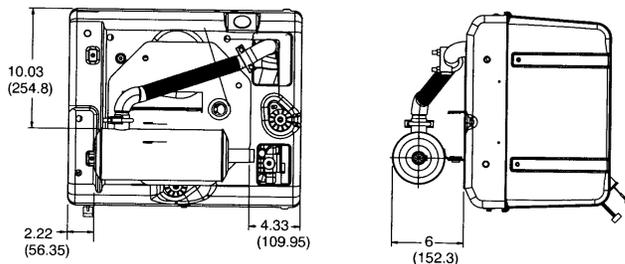
Note: Removable access cover for start/stop switch, fuse, oil check and fill, air cleaner service, governor adjustments, and carburetor adjustments.

### Muffler Kit 541-1050 - For use on 60 Hz and 50 Hz models

Muffler mounted in forward position



Muffler mounted in rear position



**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 500-3389 drawing and wiring diagram from your distributor/dealer.

## 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 w/start/stop switch and DC voltmeter (P/N 300-4938)
- Remote control plug and wire harness:  
10 ft (P/N 338-3489-01), 30 ft (P/N 338-3489-02)
- Remote harness (P/N 300-4946)
- Battery, 12 V, 360 cold cranking amps at 0° F (-18° C) (P/N 416-0717)
- Under floor mounting kit (P/N 541-0661) USDA Forest Service approved spark arrester muffler kits available (P/N 541-0618 and P/N 541-1050)
- Exhaust resonator (P/N 155-2449)
- Compartment mount installation template (P/N 539-2145)
- Under floor mount installation template (P/N 539-2146) (included in mounting kit P/N 541-0661)
- Energy command auto generator start EC-30 (P/N 018-02030)
- Energy command remote start/stop with diagnostics EC-20 (P/N 018-02020)
- Energy command wireless start/stop EC-15W (P/N 018-02015)

## Testing for RV application

- Tested at extremes of temperature -20° F (-29° C) to 120° F (49° C) for starting and operation
- Tested with RV loads, air conditioners, microwaves, converter, TVs, VCRs
- Tested installed. Cummins-owned RVs used for product development testing
- Tested in high humidity conditions
- Tested in salt spray conditions
- Tested in heavy airborne dust conditions
- Field test program
- 60 Hz (120 V only) models listed by SGS United States Testing Company, Inc. per ANSI/RVIA EGS-1 and CSA-certified per Electrical Bulletin 946
- This generator set was designed and manufactured in facilities certified to ISO 9001
- 60 Hz models meet applicable U.S. EPA and California emissions standards



## Warranty policy

This limited warranty covers virtually everything except routine maintenance for the first two years you own your RV generator set, and covers parts and labor on major power train and generator set parts during the third year. In addition, it also includes a free 90-day adjustment policy, which provides that Cummins Inc. will make minor adjustments during the first three months you own it - free of charge! Please note: This 3-year limited warranty applies to RV generator sets used in RV applications only, and does not apply to RV generator sets used in commercial mobile applications.

**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.

## 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 Cummins Onan generator set running at peak performance.

Cummins Inc. also provides genuine Onan 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

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 (981-0164), Installation (981-0631), 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).

## Contact your distributor/dealer for more information

# Cummins Onan

### Cummins Power Generation

1400 73rd Ave. NE  
Minneapolis, MN 55432 USA  
Phone 1 763 574 5000  
Toll-free 1 800 888 6626  
Fax 1 763 574 5298  
Email [www.cumminsonan.com/contact](http://www.cumminsonan.com/contact)  
[www.cumminsonan.com](http://www.cumminsonan.com)

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A-1444h (7/07)



# RV generator set

## Quiet Gasoline™ Series

### RV QG 5500 EFI



# Cummins Onan

Performance you rely on.™



### Features and benefits

- Electronic fuel injection - industry first for maximum performance.
- Quietest generator set in its class.
- Exceptionally low vibration levels.
- Integrated design with enclosed muffler for easy installation.
- Self-diagnostic capability to simplify troubleshooting.
- Runs two air conditioners with power to spare.
- Digital voltage regulation for stability as appliance loads change.
- 3-year limited warranty, lifetime drive warranty.

### Weight, size and sound level

<b>Weight</b>	279 lbs	(127 kg)
<b>Length</b>	33.6 in	(853 mm)
<b>Width</b>	22.2 in	(563 mm)
<b>Height</b>	16.7 in	(425 mm)
<b>Sound</b>	64 dB(A)	Readings at 10 ft (3 m) half load
		- Meets National Park Service sound level requirements (60 dB(A) @ 50 ft) for national park use.
		- Typical installation will further reduce sound level.

### Models and ratings

Model	Fuel	Hz	RPM	Watts	Voltage	Amps	Phase	Circuit breaker
<b>5.5 HGJAA-1273</b>	Gasoline	60	2400	5500	120	45.8	1	(2) 30 A
<b>5.5 HGJAA-600</b>	Gasoline	60	2400	5500	120	45.8	1	(1) 30 A, (1) 20 A HACR

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), (99 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

Ratings represent minimums. Actual performance may be significantly higher based on installation and operating conditions.

### Operating temperature range

	Low	High
<b>Gasoline</b>	-20° F (-29° C)	120° F (49° C)

- Depends upon LP tank capacity, surface area and butane content of LPG.

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## Standard features

- Electronic fuel injection (EFI) for clean, smooth running under all conditions
- Maintenance-free electronic governor
- Cummins Onan OHV engine
- Pressurized Thru Flow cooling system
- 4-point focalized mounting system with vibration isolators
- Universal mounting tray with structural capability to support the generator set in RV applications
- Integral USDA Forest Service-approved spark-arrestor muffler
- Replaceable two-stage dry element air cleaner
- Integral control box
- Instant one-touch stop switch
- Enclosed muffler
- Sound-attenuated housing
- Remote waterproof connector
- Long-life fuel filter
- Spin-on, full-flow oil filter
- Low oil pressure protection
- Over/under speed protection
- Overcurrent protectors (see Models and ratings section)
- Low power factor field overcurrent protection
- 120 in (3 m) generator set output leads
- Digital voltage regulation
- 2 in exhaust tubes, straight with flanged end

## Average fuel consumption:

Gasoline	No load	Half load	Full load
60 Hz	0.3 Gal/h (1.3 L/h)	0.6 Gal/h (2.2 L/h)	0.9 Gal/h (3.4 L/h)

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## Alternator details

**Design:** Cummins Onan revolving field, AC, 2-pole self-excited, two bearing design

**Insulation system and temperature rise:** Meets ANSI/RVIA EGS-1 and CSA Electrical Bulletin 946 requirements

**Cooling:** Direct drive centrifugal blower; cast aluminum housing for excellent heat transfer

**Excitation:** Capped, digital voltage regulation

**Rotor:** Laminated electrical steel assembly press-fitted to shaft, balanced; heavy insulated copper wire windings; optimized air gap for improved waveform and motor starting

**Stator:** Laminated electrical steel assembly, skewed for improved waveform; heavy insulated copper wire windings

**DC brushes:** Electrographite; long life

**Bearing:** Double-sealed pre-lubricated ball bearings

## Engine details

**Model:** Cummins Onan OHV EH65V gasoline engine

**Design:** 4-cycle, OHV, 90-degree V-Twin

**Compression ratio:** 8:1

**Displacement:** 39.8 in<sup>3</sup> (653 cm<sup>3</sup>)

**Maximum power:** 12.9 bhp (9.6 kW)

**Cooling:** Centrifugal blower, generator set-mounted for high effectiveness, pressurized system, vertical flow

**Cooling air volume:** Air flow includes engine, generator set control cooling air flow

**60 Hz** at 500 ft<sup>3</sup>/min (14.2 m<sup>3</sup>/min)

**Fuel system:** Digitally controlled, electronic fuel injection

- Combustion air volume at rated load: 14.6 ft<sup>3</sup>/min (0.41 m<sup>3</sup>/min)

- Electronically controlled throttle body governor regulation

- Coach chassis-mounted, rotary roller vane pump

- Replaceable dry element air cleaner

**Ignition system:** Electronic magneto type with resistor plugs

**Starting system:** Remote, 12 V, negative ground.

Automotive type starter with steel pinion and ring gear, automatic start disconnect, connector for remote start cable, start-stop rocker switch mounted on set control

**Lubrication:** Full pressure positive displacement lube oil pump, spin-on, full flow lube oil filter, low oil pressure shutdown, dipstick

**Oil capacity:** 2.0 qt (1.9 L) including filter

**Cylinder crankcase:** Alloy aluminum with iron cylinder liners cast into the block, aluminum oil base

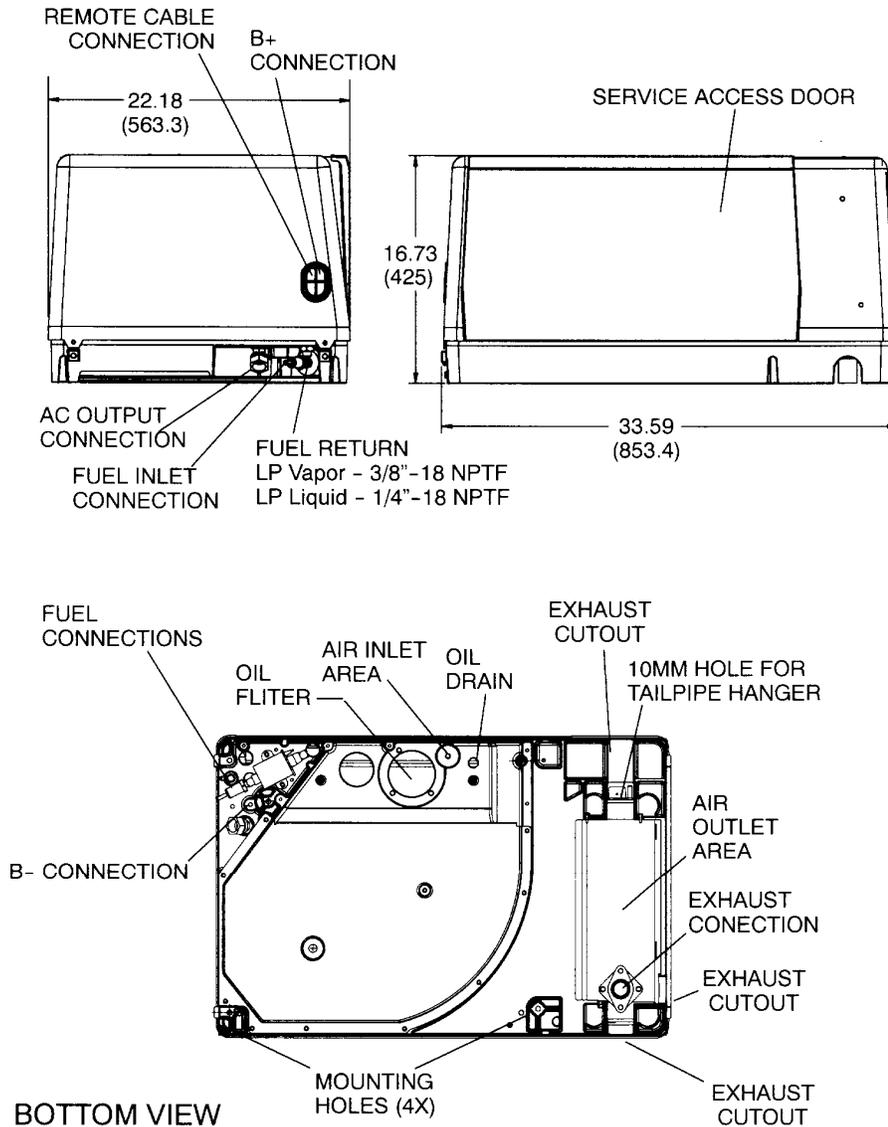
**Cylinder head:** Aluminum, OHV, removable

## Generator set performance

**Air conditioner starting:** Two 13500 Btu air conditioners with 2500 W base load at 100° F (38° C) at 500 ft (152.4 m) elevation

**Frequency and voltage regulation:** No load to full load, frequency <2%, voltage 0.6%

## 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 500-3234 drawing and wiring diagram from your distributor/dealer.

## Accessories

- 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 w/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)
- Battery, 12 V, 360 cold cranking amps at 0° F (-18° C)
- Under floor mounting kit (P/N 405-6699)
- Installation template (P/N 539-2057)
- Tailpipe kit: 22 in (P/N 155-3481-01), 26 in (P/N 155-3481-02)
- Exhaust tube, straight with flanged end: 3 in (P/N 155-2610), 7 in (P/N 155-2424), 12.5 in (P/N 155-2610-01)
- Fuel pump kit (P/N 541-1002) required
- Energy command auto generator start EC-30 (P/N 018-02030)
- Energy command remote start/stop with diagnostics EC-20 (P/N 018-02020)
- Energy command wireless start/stop EC-15W (P/N 018-02015)

## Testing for RV application

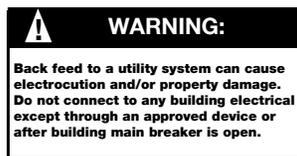
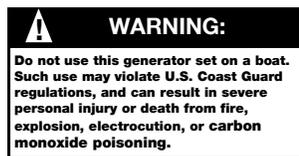
- Tested at extremes of temperature -20° F (-29° C) to 120° F (49° C) for starting and operation
- Tested with RV loads, air conditioners, microwaves, converter, TVs, VCRs
- Tested installed; Cummins-owned RVs used for product development testing
- Tested in high humidity conditions
- Tested in salt spray conditions
- Tested in heavy airborne dust conditions
- Field test program
- 60 Hz (120 V only) models listed by SGS United States Testing Company, Inc. per ANSI/RVIA EGS-1 and CSA-certified per Electrical Bulletin 946
- This generator set was designed and manufactured in facilities certified to ISO 9001
- 60 Hz models meet applicable U.S. EPA and California emissions standards



## Warranty policy

This limited warranty covers virtually everything except routine maintenance for the first two years you own your RV generator set, and covers parts and labor on major power train and generator set parts during the third year. In addition, it also includes a free 90-day adjustment policy, which provides that Cummins Inc. will make minor adjustments during the first three months you own it - free of charge! Please note: This 3-year limited warranty applies to RV generator sets used in RV applications only, and does not apply to RV generator sets used in commercial mobile applications.

The warranty period for the drive train belt and pulleys on the HGJ series generator sets used in recreational vehicles shall be the life of the generator set. For the original owner, this drive train warranty shall include parts and labor. For succeeding owners, this power train warranty shall cover belt and pulley parts only.



## 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 Cummins Onan generator set running at peak performance. Cummins Inc. also provides genuine Onan 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

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 (983-0101B), Installation (983-0600B), Parts (983-0201D), Service (983-0501D).

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).

## Contact your distributor/dealer for more information

# Cummins Onan

### Cummins Power Generation

1400 73rd Ave. NE  
Minneapolis, MN 55432 USA  
Phone 1 763 574 5000  
Toll-free 1 800 888 6626  
Fax 1 763 574 5298  
Email [www.cumminsonan.com/contact](http://www.cumminsonan.com/contact)  
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A-1430e (03/07)



# RV generator set

## Quiet Diesel™ Series

### RV QD 10000/12500



# Cummins Onan



Performance you rely on.™

### Features and benefits

- Computer-controlled constant speed operation - quiet diesel performance for larger RVs.
- Special sound-controlling housing encloses cooling system and muffler.
- Three-point, fully focalized internal mounting system reduces vibration.
- Self-diagnostic capabilities simplify troubleshooting.
- Easy, accessible maintenance points.
- Runs two or three rooftop air conditioners with power to spare.
- High quality, pure sine wave electrical output helps prevent damage to appliances.

### Weight, size and sound level

<b>Weight</b>	765 lbs	(347 kg) 10.0 kW
	770 lbs	(349 kg) 12.5 kW
<b>Length</b>	41.4 in	(1051 mm)
<b>Width</b>	24.5 in	(622 mm)
<b>Height</b>	27 in	(685 mm)
<b>Sound</b>	68 dB(A)	(readings at 10 ft (3 m) half load)
	- Meets National Park Service sound level requirements (60 dB(A) @ 50 ft) for national park use.	
	- Typical installation will further reduce sound level.	

### Models and ratings

Model	Fan	Hz	Watts	Voltage	Amps	Phase	Circuit breaker
<b>12.5 HDKCB-11506</b>	Internal	60	12500	120/240	104.0/52.0	1	50 A, 2-pole
<b>10.0 HDKCA-11506</b>	Internal	60	10000	120/240	83.3/41.7	1	45 A, 2-pole

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), (99 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

Ratings represent minimums. Actual performance may be significantly higher based on installation and operating conditions.

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## Standard features

- 3 cylinder diesel engine
- Brush type AC alternator
- Digital voltage regulation w/no adjustments required
- Bottom air inlet and outlet
- Integral enclosed muffler with stationary exhaust pipe connection point
- USDA-approved spark arrestor
- Internal radiator
- Sound insulated cover with cooling air inlet and outlet ducts
- Intake silencer
- Heavy-duty air cleaner
- Maintenance-free electronic governor
- Hour meter
- Meets applicable U.S. EPA and California emissions standards
- Waterproof connector for remote operation
- Focalized mounting system
- Over voltage, low oil pressure, over temp, over speed, overload and AC alternator over temp safeties
- Bulkhead type connections for fuel and battery
- Terminal block connection for AC output
- Electric fuel pump
- Fuel filter
- Full flow oil and fuel filter
- Service and maintenance through service doors
- Automatic timed glow plugs for quick easy start
- Instant one-touch stop

### Average fuel consumption:

Diesel	No load	Half load	Full load
<b>10.0HDKCA</b>	0.1 Gal/h (0.4 L/h)	0.43 Gal/h (1.63 L/h)	1.01 Gal/h (3.8 L/h)
<b>12.5HDKCB</b>	0.1 Gal/h (0.4 L/h)	0.48 Gal/h (1.8 L/h)	1.2 Gal/h (4.5 L/h)

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## Alternator details

**Design:** Cummins Onan brush type, drip-proof construction

**Insulation system:** Class H per NEMA MGI-1.65 and BS 2757, insulating varnish conforms to MIL-1-24092, Grade CB, Class 155C

**Exciter system:** Electronite voltage regulator

**Bearings:** Double sealed, pre-lubricated ball bearing

**Cooling:** Direct drive centrifugal blower; cast aluminum housing for excellent heat transfer

## Control system

Microprocessor control

Integrated generator set and engine control

User and service personnel accessible diagnostics

Over voltage, over speed and overload safety

Low oil pressure safety

AC alternator over temp safety

Automatic timed glow plugs

One touch stop

## Engine details

**Design:** 4-cycle, liquid-cooled diesel engine

**Cylinders:** 3, inline vertical

**Bore:** 3.43 in (87.0 mm)

**Stroke:** 3.64 in (92.4 mm)

**Displacement:** 100.5 cu in (1647 cc)

**Compression ratio:** 23 to 1

**Lube oil capacity:** 5.9 qt (5.6 L)

**Cooling system capacity:** 6.6 qt (6.2 L)

**Power (max) at 1800 rpm:** 27 hp (20.2 kW) SAE net intermittent

**Starting system:** Remote, 12 V

**Fuel injection pump:** Zexel, licensed Bosch PFR

**Combustion chamber:** IDI

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## Generator set performance

**Voltage regulation no load to full load:**  $\pm 2\%$

**Frequency regulation no load to full load:**

$\pm 0.1\%$

**Random frequency variation for constant loads:**

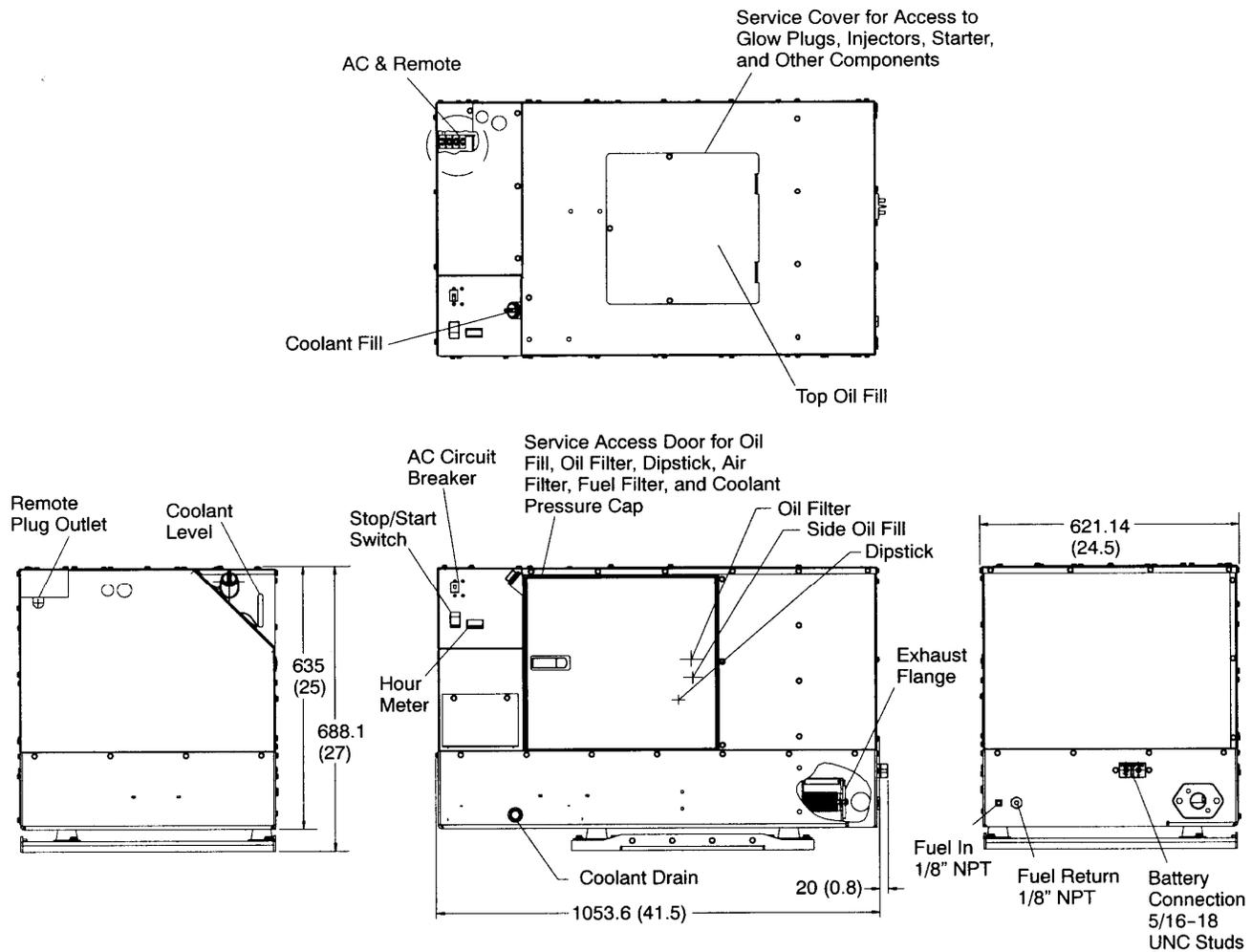
$\pm 0.6\%$

**Random voltage variation for constant loads:**

$\pm 0.5\%$

**Air conditioner operation:** Will operate with three 15000 Btu air conditioners and an additional load of up to 4000 W at 100° F and 500 ft (152.4 m) altitude

## 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 500-4040 drawing and wiring diagram from your distributor/dealer.

## Accessories

- Exhaust elbow (P/N 155-3194)
- Exhaust adapter - 7 in (P/N 155-2424)
- Exhaust adapter - 3 in (P/N 155-2610)
- Remote wiring harnesses for use with remote panels:
  - 10 ft (P/N 338-3490-01)
  - 30 ft (P/N 338-3490-02)
- Remote control pigtail (P/N 300-4947)
- Remote control panels:
  - Switch only (P/N 300-4942)
  - Switch and hour meter (P/N 300-4943)
  - Switch and DC voltmeter (P/N 300-4944)
- Energy command auto generator start EC-30 (P/N 018-02030)
- Energy command remote start/stop with diagnostics EC-20 (P/N 018-02020)
- Energy command wireless start/stop EC-15W (P/N 018-02015)

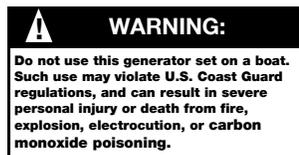
## Testing for RV application

- Tested at extremes of temperature -20° F (-29° C) to 120° F (49° C) for starting and operation
- Tested with RV loads, air conditioners, microwaves, converter, TVs, VCRs
- Tested installed. Cummins Onan RVs used for product development testing
- Tested in high humidity conditions
- Tested in salt spray conditions
- Tested in heavy airborne dust conditions
- Field test program
- 60 Hz (120 V only) models listed by SGS United States Testing Company, Inc. per ANSI/RVIA EGS-1 and CSA-certified per Electrical Bulletin 946
- This generator set was designed and manufactured in facilities certified to ISO 9001
- 60 Hz models meet applicable U.S. EPA and California emissions standards



## Warranty policy

This limited warranty covers virtually everything except routine maintenance for the first two years you own your RV generator set, and covers parts and labor on major power train and generator set parts during the third year. In addition, it also includes a free 90-day adjustment policy, which provides that Cummins Inc. will make minor adjustments during the first three months you own it - free of charge! Please note: This 3-year limited warranty applies to RV generator sets used in RV applications only, and does not apply to RV generator sets used in commercial mobile applications.



## 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 Cummins Onan generator set running at peak performance. Cummins Inc. also provides genuine Onan 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

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 (981-0173), Installation (981-0640), Parts (981-0277), Service (981-0540).

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).

## Contact your distributor/dealer for more information

# Cummins Onan

### Cummins Power Generation

1400 73rd Ave. NE  
Minneapolis, MN 55432 USA  
Phone 1 763 574 5000  
Toll-free 1 800 888 6626  
Fax 1 763 574 5298  
Email [www.cumminsonan.com/contact](http://www.cumminsonan.com/contact)  
[www.cumminsonan.com](http://www.cumminsonan.com)



# RV generator set

## Quiet Gasoline™ Series

### RV QG 2800



# Cummins Onan

Performance you rely on.™



## Features and Benefits

- Lightweight.
- Gasoline or LP fueled.
- Quietest generator sets of their size.
- Easy maintenance with single-side service.
- Completely enclosed, quick, easy to install.
- 3-year limited warranty.
- Low fuel consumption.

## Weight, size and sound level

<b>Weight</b>	113 lbs	(51 kg)
<b>Length</b>	24.0 in	(610 mm)
<b>Width</b>	16.4 in	(417 mm)
<b>Height</b>	12.3 in	(313 mm)
<b>Sound</b>	70 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.

## Models and ratings

Model	Fuel	Hz	RPM	Watts	Voltage	Amps	Phase	Circuit breaker
<b>2.8 KV-FA/26100</b>	Gasoline	60	3600	2800	120	23.3	1	25 A
<b>2.8 KV-FA/6050*</b>	Gasoline	60	3600	2800	120	23.3	1	25 A
<b>2.5 KV-FA/26120</b>	LP vapor	60	3600	2500	120	20.8	1	25 A
<b>2.3 KV-FR/33742</b>	Gasoline	50	3000	2300	230	10	1	10 A
<b>2.3 KV-FR/5903</b>	Gasoline	50	3000	2300	230 (1)	10	1	10 A
<b>2.0 KV-FR/26119</b>	LP vapor	50	3000	2000	230	8.7	1	10 A
<b>2.0 KV-FR/5902</b>	LP vapor	50	3000	2000	230 (1)	8.7	1	10 A

(1) Australia/New Zealand wire colors.

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), (99 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

Ratings represent minimums. Actual performance may be significantly higher based on installation and operating conditions.

\* Evaporative spec: For trailer applications required to meet Tier III Evaporative Emissions of the California Air Resources Board.

## Operating temperature range

	Low	High
<b>Gasoline</b>	-20° F (-29° C)	120° F (49° C)
<b>LP</b>	0° F (-18° C)	120° F (49° C)

- Depends upon LP tank capacity, surface area and butane content of LPG.

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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 preheat
- Overhead valves
- Single-side service
- Low oil level shutdown
- Electric fuel pump (gasoline); electric solenoid (LP)
- Mounted control panel
- Sealed remote start connector
- Electric start
- Fused DC circuits to protect set wiring and remote control wiring
- Magnetic circuit breaker
- 50 in (1.3 m) generator set output leads
- Solid-state ignition

### Average fuel consumption:

#### Gasoline

**60 Hz 2.8 KV**

**50 Hz 2.3 KV**

#### No load

0.2 Gal/h (0.8 L/h)

0.2 Gal/h (0.8 L/h)

#### Half load

0.3 Gal/h (1.1 L/h)

0.2 Gal/h (0.9 L/h)

#### Full load

0.4 Gal/h (1.6 L/h)

0.4 Gal/h (1.5 L/h)

#### LP

**60 Hz 2.5 KV**

**50 Hz 2.0 KV**

#### No load

0.2 Gal/h (0.9 lb/h) 0.4 kg/h

0.2 Gal/h (0.9 lb/h) 0.4 kg/h

#### Half load

0.4 Gal/h (1.5 lb/h) 0.7 kg/h

0.3 Gal/h (1.3 lb/h) 0.6 kg/h

#### Full load

0.6 Gal/h (2.4 lb/h) 1.1 kg/h

0.5 Gal/h (1.9 lb/h) 1.0 kg/h

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## Alternator details

**Design:** Cummins Onan 2-pole self-excited revolving field permanently aligned to engine by a tapered shaft with drip-proof construction

**Insulation system and temperature rise:** Meets ANSI/RVIA EGS-1, BS-4999 standards and CSA Electrical Bulletin 946

**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:** Electrographite

## 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

**Power:** 7.0 bhp (max) at 3600 r/min

**Cooling:** Pressurized air

**Cooling air volume:** includes engine cooling air volume

**60 Hz:** 300 ft<sup>3</sup>/m (8.5 m<sup>3</sup>/min) at 3600 r/min

**50 Hz:** 250 ft<sup>3</sup>/m (7.1 m<sup>3</sup>/min) at 3000 r/min

**Fuel system:** (Gasoline) electric fuel pump, fuel lift 3 ft (914 mm); (LP) electric fuel solenoid; automatic choke

**Combustion air:**

**60 Hz:** 12.5 ft<sup>3</sup>/m (0.35 m<sup>3</sup>/min) at 3600 r/min

**50 Hz:** 10.4 ft<sup>3</sup>/m (0.3 m<sup>3</sup>/min) at 3000 r/min

**Ignition system:** Breakerless, electronic

**Starting system:** Remote, 12 V, 3-wire negative ground; start-stop rocker switch on control; connector for remote start cable

**Lubrication:** Splash lubrication

**Oil capacity:** 1 qt (0.95 L)

**Cylinder crankcase:** Alloy aluminum with iron cylinder liner cast into the block

**Oil base:** Aluminum

**Cylinder head:** Alloy aluminum, removable

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## Generator set performance

**Air conditioner operation:**

**60 Hz:** at 500 ft (152.4 m) and 100° F (38° C); 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 1000 W base load; 2.5 KV generator set will start and run one approved 13500 Btu air conditioner plus a 300 W base load

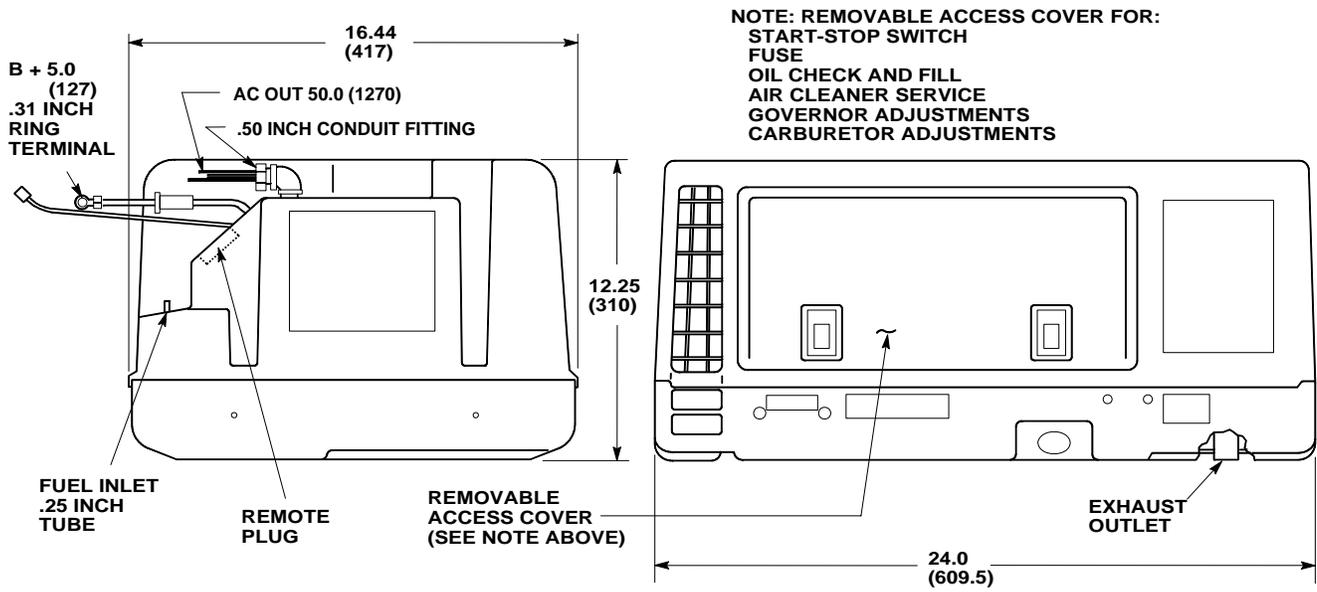
**50 Hz:** at 500 ft (152.4 m) and 100° F (38° C); 2.0 KV will start and run one 7800 Btu air conditioner (5.5 cooling amps or less) with a 300 W base load

**Voltage regulation:** Exceeds requirements of ANSI/RVIA EGS-1 ±10%

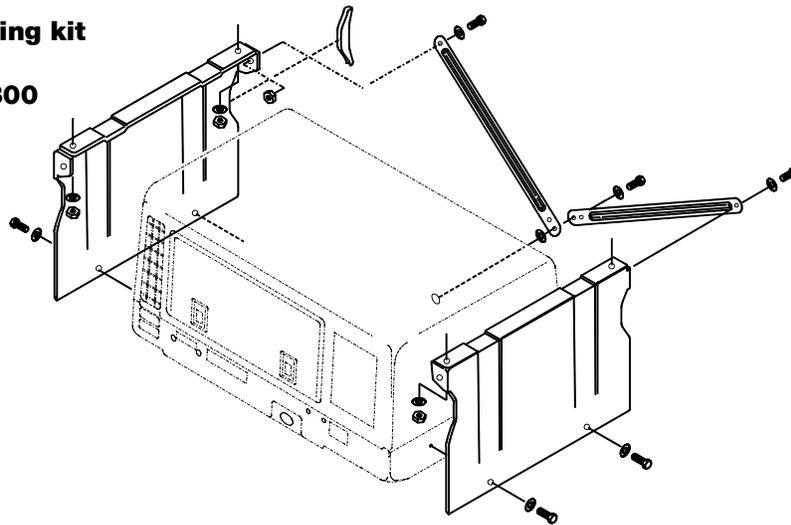
**Frequency regulation:** Exceeds requirements of ANSI/RVIA EGS-1 ± 5%

**Note:** See your Cummins Onan distributor or certified Cummins Onan service dealer for a listing of approved air conditioners.

## Basic dimensions



### Underfloor mounting kit (P/N 403-2689) Quiet Gasoline 2800



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## 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 with start/stop switch and DC voltmeter (P/N 300-4938)
- Remote control plug and wire harness 10 ft (P/N 388-3489-01), 30 ft (P/N 338-3489-02)
- Battery, 12 V, 360 cold cranking amps at 0° F (-18° C)
- Under floor mounting kit (P/N 403-2689)
- Tailpipe for 18-25 in exhaust installations (P/N 155-2174)
- Exhaust kit for installations over 2 in (P/N 155-2324)
- Exhaust resonator (P/N 155-2449)
- Exhaust down tube kit (PN 155-2425)
- Compartment mount installation template (P/N 539-1386)
- Under floor mount installation template (included in mounting kit P/N 403-2689) (P/N 539-0978)
- Energy Command 30 auto generator start (P/N 018-02030)
- Energy Command 20 remote start/stop with diagnostics (P/N 018-02020)
- Energy Command 15W wireless start/stop (P/N 018-02015)

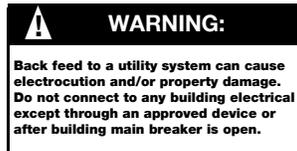
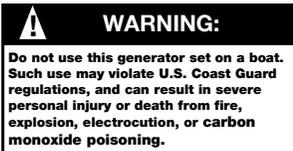
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**Contact your distributor/dealer for more information.**

# Cummins Onan

**Cummins Power Generation**

1400 73rd Ave. NE

Minneapolis, MN 55432 USA

Phone 1 763 574 5000

Toll-free 1 800 888 6626

Fax 1 763 574 5298

Email [www.cumminsonan.com/contact](http://www.cumminsonan.com/contact)

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

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