

## Specification Sheet

# RV Onan Generator Quiet Diesel™ Series Onan QD 3200



### Features and Benefits

- Intended for RV OEM first fit applications only
- Computer-controlled constant speed operation - quiet diesel performance for smaller RVs.
- Special sound-controlling housing encloses cooling system and muffler.
- Double isolation mounting system reduces vibration.
- Easy, accessible maintenance points.
- Runs one rooftop air conditioner with power to spare.
- Integrated start/stop control with hour meter.

### Weight, Size and Sound Level

<b>Weight</b>	205 lb. (93 kg)
<b>Length</b>	30.2 in (766 mm)
<b>Width</b>	17.3 in (439 mm)
<b>Height</b>	18 in (453 mm)
<b>Sound</b>	72 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
3.2 HDZAA-6508	Internal	60	3200	120	26.7	1

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

- 1 cylinder diesel engine
- Permanent magnet alternator
- Digital voltage regulation w/no adjustments required
- Integral enclosed muffler with stationary exhaust pipe connection point
- USDA-approved spark arrestor
- Sound insulated cover with cooling air inlet and outlet ducts
- Heavy-duty air cleaner
- Automotive type starter
- Hour meter
- Meets applicable U.S. EPA and California emissions standards
- Connector for remote operation
- Double Isolation mounting system
- Terminal block connection for AC output
- Electric fuel pump
- Fuel filter
- Cleanable oil screen filter
- Service and maintenance through service doors
- Pure Sine Wave

## Average Fuel Consumption:

Diesel	No load	Half load	Full load
3.2 HDZAA	0.2 Gal/h (0.7 L/h)	0.3 Gal/h (1.0 L/h)	0.4 Gal/h (1.4 L/h)

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## Alternator Details

**Design:** Permanent magnet

**Brushes:** None

**Exciter system:** None

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

## Control System

Microprocessor control  
Service diagnostics  
Maintenance reminders  
Over voltage, over speed and overload safety  
AC alternator over temp safety  
Automatic timed glow plug  
Remote LCD display with start/stop switches included  
Remote Display harness included – 26.2ft (8M)

## Engine Details

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

**Cylinders:** 1, vertical

**Bore:** 3.15 in (80.0 mm)

**Stroke:** 2.72 in (69 mm)

**Displacement:** 21.16 in<sup>3</sup> (347 cm<sup>3</sup>)

**Compression ratio:** 22 to 1

**Lube oil capacity:** 1.2 qt (1.1 L)

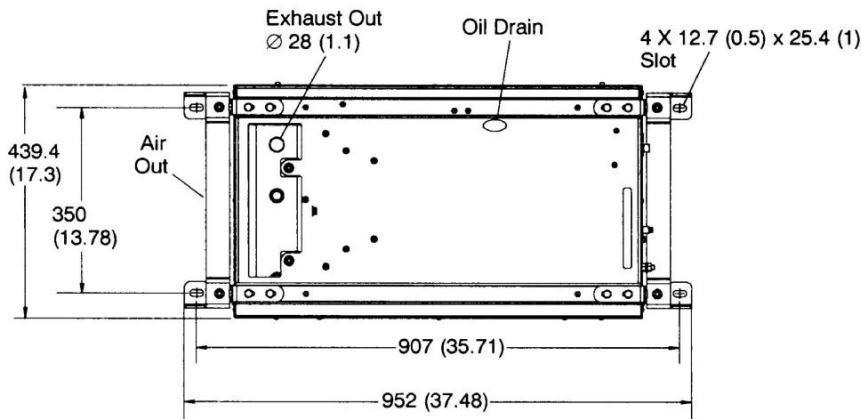
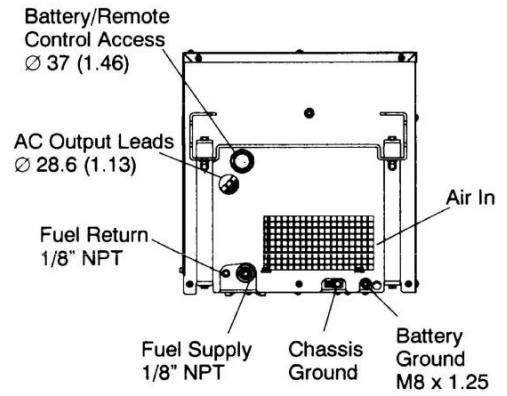
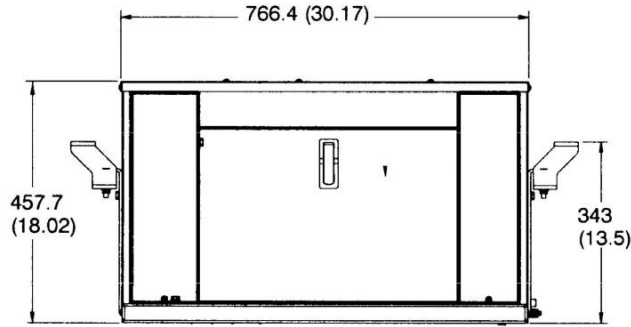
## Generator Set Performance

**Voltage regulation no load to full load:** ± 8%

**Frequency regulation no load to full load:**  
± 0.1% THD: <5%

**Air conditioner operation:** Will operate with one conventional 15,000 Btu air conditioner and an additional load up to 1000 W at 100° F and 500 ft (152.4 m) altitude

## Basic Dimensions



mm (in)

**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 500-4709 drawing and wiring diagram from your distributor/dealer.

## 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 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 by Std. 100 Motors and Generators and TIL RV-06

- 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, please note: This 3-year limited warranty applies to RV generator sets used in RV applications only. Warranty coverage will be void for HDZAA generators used in non RV applications.

<b>!</b> <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>!</b> <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

### 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 certified 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. Plus, they can answer your questions regarding proper operation, maintenance schedules and more.

**Manuals:** Operator and installation manuals ship with the generator set. To obtain additional copies or other manuals for this model, see your Cummins sales or service representative and request the following manual numbers: Operator (983-0103), Installation (983-0602), Parts (983-0203), Service (983-0502).

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](http://www.power.cummins.com)

## Contact your Cummins sales representative for more information

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