RV generator set
Quiet Diesel™ Series
RV QD 3200

Features and benefits
- 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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>205 lb</td>
<td>(93 kg)</td>
</tr>
<tr>
<td>Length</td>
<td>30.2 in</td>
<td>(766 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>17.3 in</td>
<td>(439 mm)</td>
</tr>
<tr>
<td>Height</td>
<td>18 in</td>
<td>(453 mm)</td>
</tr>
<tr>
<td>Sound</td>
<td>68 dB(A)</td>
<td>(readings at 10 ft (3 m) half load)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Meets National Park Service sound level requirements (60 dB(A) @ 50 ft) for national park use.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Typical installation will further reduce sound level.</td>
</tr>
</tbody>
</table>

Models and ratings

<table>
<thead>
<tr>
<th>Model</th>
<th>Fan</th>
<th>Hz</th>
<th>Watts</th>
<th>Voltage</th>
<th>Amps</th>
<th>Phase</th>
<th>Circuit protector</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.2 HDZAA-6508A</td>
<td>Internal</td>
<td>60</td>
<td>3200</td>
<td>120</td>
<td>26.7</td>
<td>1</td>
<td>1 pole, 30 A</td>
</tr>
</tbody>
</table>

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.
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

Control system
- Microprocessor 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
- Integrated display with start/stop switches and LCD

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 in³ (347 cm³)
- **Compression ratio:** 22 to 1
- **Lube oil capacity:** 1.2 qt (1.1 L)

Average fuel consumption:

<table>
<thead>
<tr>
<th></th>
<th>No load</th>
<th>Half load</th>
<th>Full load</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diesel</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.2 HDZAA</td>
<td>0.2 Gal/h (0.7 L/h)</td>
<td>0.3 Gal/h (1.0 L/h)</td>
<td>0.4 Gal/h (1.4 L/h)</td>
</tr>
</tbody>
</table>

Alternator details
- **Design:** Permanent magnet
- **Brushes:** None
- **Exciter system:** None
- **Cooling:** Direct drive centrifugal blower; cast aluminum housing for excellent heat transfer

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 13500 Btu air conditioner and an additional load up to 1000 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 500-4709 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 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 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

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.

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.

Contact your distributor/dealer for more information
Cummins Power Generation
1-400 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
www.cumminsonan.com

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A-1501 (11/07)