

RV generator set

Quiet Diesel™ Series

RV QD 5500



Cummins Onan

Performance you rely on.™



Features and benefits

- Compact diesel design perfect for smaller diesel coaches.
- High quality sine wave electrical output maximizes appliance efficiency.
- Integrated design with enclosed muffler for easy installation and quiet operation.
- Runs two air conditioners with power to spare.
- Self-diagnostic capabilities simplify troubleshooting.
- Focalized, three-point mounting system reduces vibration.

Weight, size and sound level

- Weight** 400 lbs (181 kg)
- Length** 34.5 in (876 mm)
- Width** 22.4 in (569 mm)
- Height** 20.3 in (516 mm)
- Sound** 68 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	Fan	Hz	Watts	Voltage	Amps	Phase	Circuit breaker
5.5HDKBA-2732	Internal	60	5500	120	45.8	1	(1) 30 A and (1) 20 A

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

- 2-cylinder diesel engine
- Brush type AC alternator
- Digital voltage regulation w/no adjustments required
- Bottom and side 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
- Replaceable dry element air cleaner
- Maintenance-free electronic governor
- Fused DC circuits
- 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 and overload safeties
- Bulkhead type connections for fuel and battery
- Terminal block connection for AC output
- Electric fuel pump
- Fuel filter
- Full flow oil filter
- Service and maintenance from below
- Automatic timed glow plugs for quick, easy start
- Instant one-touch stop

Average fuel consumption:

Diesel	No load	Half load	Full load
5.5HDKBA	0.25 Gal/h (0.93 L/h)	0.41 Gal/h (1.57 L/h)	0.66 Gal/h (2.51 L/h)

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

Exciter system: 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

Bearings: Double-sealed pre-lubricated ball bearings

Control system

Microprocessor control

Integrated generator set and engine control

User and service personnel accessible diagnostics

Over voltage safety

Low oil pressure safety

Over speed safety

Overload safety

Automatic timed glow plugs

One-touch stop

Engine details

Design: 4-cycle, liquid-cooled diesel engine

Cylinders: 2, inline vertical

Bore: 2.64 in (67 mm)

Stroke: 2.68 in (68 mm)

Displacement: 29.2 cu in (479 cc)

Compression ratio: 23 to 1

Lube oil capacity: 2.0 qt (1.9 L)

Cooling system capacity: 3.1 qt (2.9 L)

Power (max) at 3000 rpm: 10.7 hp (8.0 kW)
SAE Net Intermittent

Starting system: Remote, 12 V

Fuel injection pump: Zexel, licensed Bosch PFR

Combustion chamber: IDI

Generator set performance

Voltage regulation no load to full load: $\pm 1\%$

Frequency regulation no load to full load:
 $\pm 0.1\%$

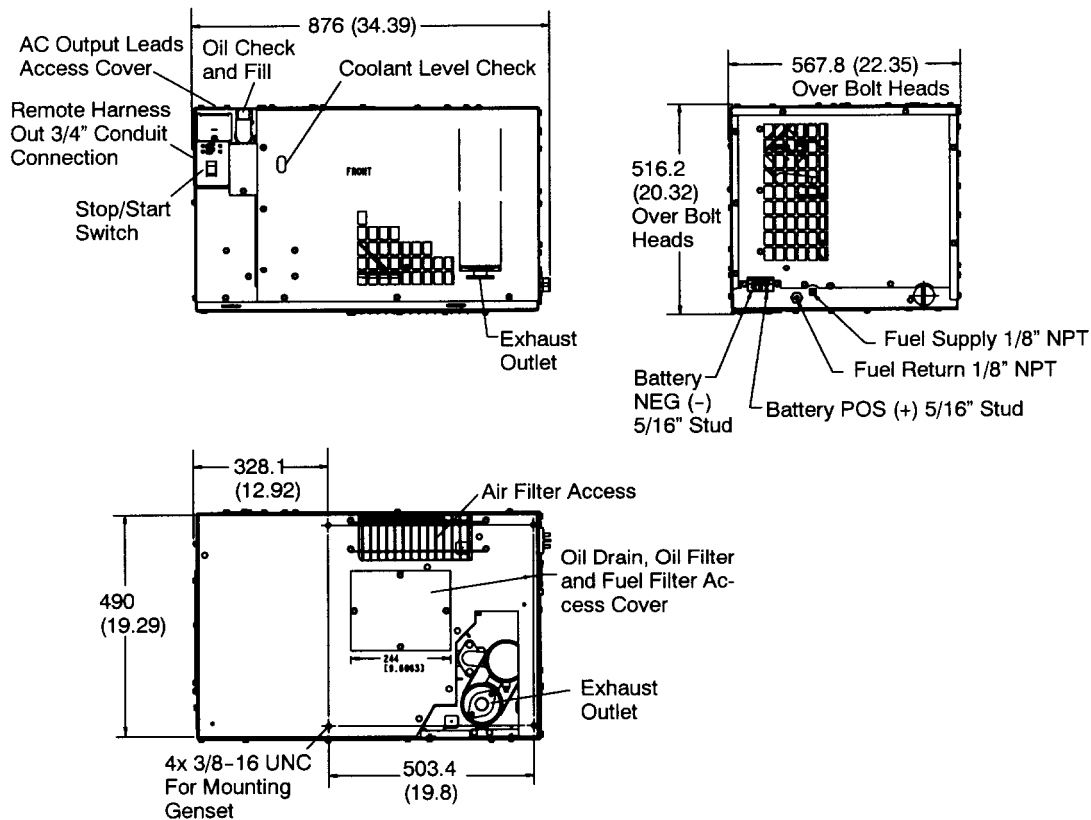
Random frequency variation for constant loads:
 $\pm 0.5\%$.

Random voltage variation for constant loads:
 $\pm 2\%$

Maximum operating ambient: Efficient radiator cooling system permits operation at inlet cooling air temperatures to 120° F

Air conditioner capacity: Two 13500 Btu air conditioners with 1500 W base load or two 11000 Btu air conditioners with 1500 W base load at 100° F (38° C) at 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 500-3554 drawing and wiring diagram from your distributor/dealer.

- Conventional compartment mount

Accessories

- Exhaust elbow (P/N 155-2982)
- Exhaust adapter - 7 in (P/N 155-2424)
- Exhaust adapter - 3 in (P/N 155-2610)
- Battery, 12 V, 475 CCA at 0° F (-17.8° C) (P/N 416-0795)
- 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)

Note: Protected by one or more of the following patents: US 5,006,781, US 5,158,208, US 5,096,153, US 5,175,458, US 5,240,222. Other patents pending.

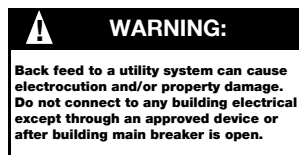
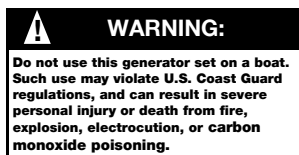
Testing for RV application

- 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.



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 (981-0166), Installation (981-0633), Parts (981-0271), Service (981-0535).

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.

Contact your distributor/dealer for more information

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