



RV Quiet Diesel 7500/8000 GenSet



GeneratorJoe

GeneratorJoe®

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RV GenSet

- Dramatically Lower Noise, Vibration, Harshness (NVH)
- Up to 15 dB(A) Quieter Than Other RV Diesel-Powered Generators
- Load-Matching, Variable Speed Operation Improves Low-Load Quietness
- Enclosed Muffler for Added Quietness, Easy Installation
- Automatic Glow Plug Preheating Eliminates Preheat Time Uncertainty
- Pure Sine Wave Output Like Residential-Quality Power
- Convenient Top-Mounted Switches, Oil and Coolant Level Check/Fill
- Service and Maintenance Points Accessible from Below
- Self-Diagnostic Capability Simplifies Troubleshooting
- Complete Integrated Package for Easy, Low-Cost Installation

Models and Ratings

Model	Fan	Hz	Watts	Voltage	Amps	Phase	Circuit Breaker
7.5 HDKAJ/11296*	Internal	60	7500	120	62.5	1	2 Pole 35 A
7.5 HDKAJ/11451	Internal	60	7500	120	62.5	1	2 Pole 35 A
8.0 HDKAK/11296*	Internal	60	8000	120	66.6	1	2 Pole 35 A
8.0 HDKAK/11451	Internal	60	8000	120	66.6	1	2 Pole 35 A

* Includes a 10-amp battery charger.

Weight, Size and Sound Level

- 420 lbs, wet
- Length 36.3 in, width: 23.6 in, height: 22.3 in
- 66 dB(A) at 10 ft (3 m), approximately 52 dB(A) at 50 ft (15 m), 1/2 load, before installation*
Lower than National Park Service Sound Level Requirements (60 dB(A) at 50 ft). Can be used in National Parks.
*Typical installation will further reduce sound level.

Standard Features

- 3-cylinder diesel engine
- Permanent magnet alternator
- Pure sine wave output
- 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
- Fused DC circuits
- Automotive type starter
- Meets Phase 1 and 1995-2001 U.S. EPA and California emissions regulations
- Waterproof connector for remote operation
- Focalized mounting system
- Overvoltage, low oil pressure, overtemp, overspeed, 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

Control System

- Microprocessor control
- Integrated generator and engine control
- User and service personnel accessible diagnostics
- Fused DC circuits
- Overvoltage safety
- Low oil pressure safety
- Overspeed safety
- Overload safety
- Automatic timed glow plugs
- One-touch stop

Engine Detail

Design: 4-cycle, liquid-cooled diesel engine
Cylinders: Inline vertical 3
Bore: 67 mm (2.64 in)
Stroke: 68 mm (2.68 in)
Displacement: 719 cc (43.88 cu in)
Compression Ratio: 23 to 1
Lube Oil Capacity: 2.8 qt (2.61 L)
Average Fuel Consumption:

	<u>No Load</u> gph(l/h)	<u>Half Load</u> gph(l/h)	<u>Full Load</u> gph(l/h)
7.5HDKAJ	0.13 (0.49)	0.49 (1.85)	0.96 (3.63)
8.0HDKAK	0.13 (0.49)	0.49 (1.85)	1.02 (3.86)

Cooling System Capacity: 4 qt (4.21 L)
Power (max) @ 3600 rpm: 12.4 kW (16.6 hp)
SAE Net Intermittent
Starting System: Remote, 12 V
Fuel Injection Pump: Bosch MD type
Combustion Chamber: Spherical (TVCS)

Generator Detail

Design: Onan, permanent magnet
Insulation System: Class H
Exciter System: None

Brushes: None
Bearings: None
Cooling: Main engine fan cooled

GenSet Performance

Voltage Regulation No Load to Full Load: ± 1%
Frequency Regulation No Load to Full Load: ± 0.1%
Random Frequency Variation for Constant Loads: ± 0.5%
Random Voltage Variation for Constant Loads: ± 2%
Maximum Operating Ambient: Efficient radiator cooling system permits operation at ambient temperatures to 120°F

Air Conditioner Operation: Will operate with two 15,000 BTU air conditioners and an additional load of up to 3100 W at 100°F and 500 ft altitude.
Sound Levels: Variable speed operation provides dramatically low sound levels - all readings at 10 ft (3 m) distance:
- **No Load:** 61 dBA
- **1/2 Load:** 66 dBA
- **Full Load:** 71 dBA

Options and Accessories

Options

- Battery charger
- Hourmeter

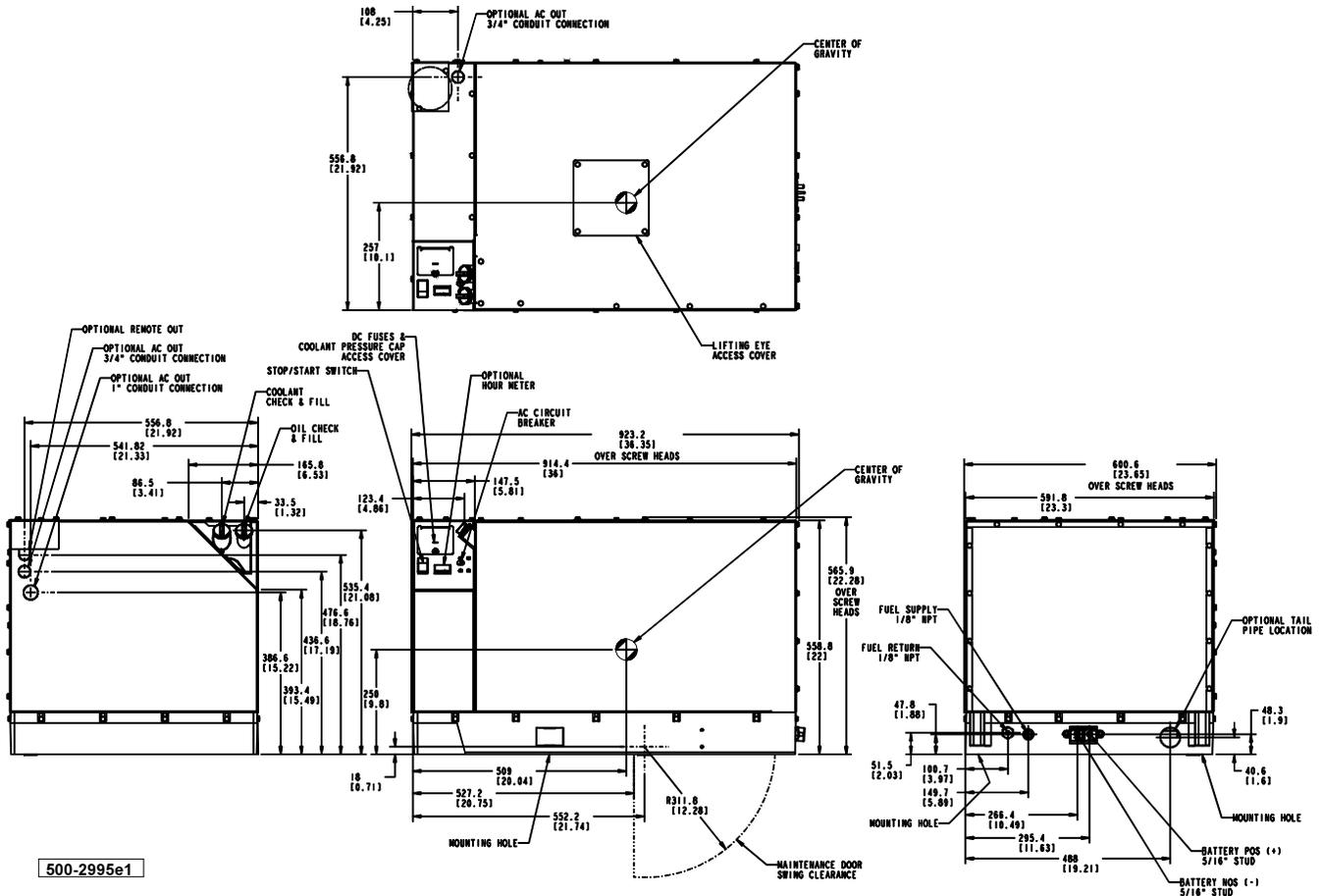
Accessories

- 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 hourmeter (P/N 300-4943)
 - Switch and DC voltmeter (P/N 300-4944)
 - Full gauge panel (P/N 300-5027)

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.

Basic Dimensions



500-2995e1

Conventional Compartment Mount



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Onan 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. Onan owns 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 (120V only) models listed by SGS United States Testing Company, Inc. per ANSI/EGS-1-1998 and CSA-certified per Electrical Bulletin 946.
Ratings apply to altitudes up to 500 ft (150 m), 85° F (29° C) ambient with muffler, in RV enclosure. (Standard cooling, 100° F (38° C) ambient with No. 2 diesel fuel).
60 Hz models meet U.S. EPA Phase I and 1995-2001 California emission regulations for small off-road engines.



Warranty Policy

The Onan 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 Onan will make minor adjustments to your new genset during the first three months you own it - free of charge! Please note: The Onan 3-year Limited Warranty applies to RV generators used in RV applications only, and does not apply to RV generators used in commercial mobile applications.

For complete Onan Limited Warranty details see your Onan Distributor or Certified Onan Service Dealer.

After Sale Support

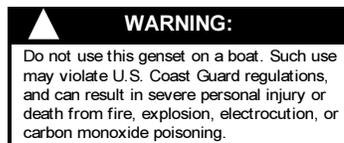
GENUINE ONAN MAINTENANCE PARTS AND PRODUCTS -

For your ongoing satisfaction and the dependability of your Onan RV genset, Onan offers a complete line of replacement and tune-up parts, oil and maintenance chemicals specifically designed for RV gensets. Easy to find at certified Onan RV Service and Parts Dealers coast-to-coast, Onan Green Label™ RV parts are packaged for correct selection and convenient on-board storage.

EASY TO LOCATE CERTIFIED ONAN RV SERVICE AND PARTS DEALER - Onan has trained, tested and certified over 1000 authorized Onan RV Service Dealers covering most major metropolitan areas in the U.S. and Canada.



See Your Onan Distributor:



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Onan

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WARNING: Backfeed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.