



Commercial generator set Quiet Diesel™ Series QD 8000 50 Hz



Features and benefits

- Computer-controlled constant speed operation
- Unique sound-controlled housing encloses cooling system and muffler - simplifies installation
- Three-point, fully focalized internal mounting system reduces vibration
- Self-diagnostic capabilities simplify troubleshooting
- Service and maintenance points accessible through easy-latch side service door
- Convenient, top-mounted switches and coolant level check/fills
- Automatic glow plug eliminates preheat time uncertainty

Weight, size and sound level

- Weight:** 768 lbs (348 kg), wet
- Size:** Length 41.5 (1053.6 mm), width 24.5 in (621.1 mm), height 27.0 in (688.6 mm)
- Sound:** 66 dB(A) at 10 ft (3 m), before installation, half load

Models and ratings

Model	Fan	Hz	Watts	Voltage	Amps	PF	Phase	Circuit breaker
8HDKCC/6881	Internal	50	8000	230	35	1.0	1	(1) 2 pole* 35 A

- All 50 Hz models operate at 1500 r/min.
- Ratings apply up to 500 ft (153 m) altitude, 85 °F (29 °C) ambient* with No. 2 diesel fuel.
- Maximum power capability decreases 3.5% for each 1000 ft (305 m) above 500 ft (153 m) and 1% for each 10 °F (5.5 °C) increase in ambient* temperature above 85 °F (29 °C).
- Ratings are at intermittent power output. Continuous output is 85% of intermittent output.

* Ambient is defined as the air temperature measured at the cooling air inlet to the set.

* Only one pole is used.

* Sound levels may vary based on installation and environmental conditions.

Standard features

- 3 cylinder diesel engine
- Brush type AC alternator
- Digital voltage regulation
- Bottom air inlet and outlet configuration
- Integral enclosed muffler with stationary exhaust pipe connection point
- USDA approved spark arresting muffler
- Internal radiator
- Sound attenuated housing
- Intake silencer
- Heavy duty air cleaner
- Maintenance free electronic governor
- Regulated-voltage 15 A battery charging
- Hour meter
- Waterproof connector for remote operation
- Focalized mounting system with 3-point vibration isolation
- Over voltage, low oil pressure, overtemp, over speed, overload and AC alternator overtemp 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 side service door
- Automatic timed glow plugs for quick easy start
- Instant one touch stop

Engine details

Model: Kubota D1503-M
Design: 4-cycle, liquid-cooled diesel engine
Cylinders: 3, inline vertical
Bore: 3.27 in (83 mm)
Stroke: 3.64 in (92.4 mm)
Displacement: 91.44 cu in (1499 cm)
Compression ratio: 23.0:1
Lube oil capacity: 5.9 qt (5.6 L)
Cooling system capacity: 6.6 qt (6.2 L)
Power (max): At 1500 r/min: 24.8 hp (18.5 kW) (EPA Tier 4)
Starting system: Remote, 12 V
Fuel injection pump: Bosch
Combustion chamber: IDI

Typical fuel consumption

No. 2 diesel fuel, Gal/hr (L/hr)	No load	Half load	Full load
8 HDKCC	0.27 (1.02)	0.50 (1.89)	0.80 (3.03)

Alternator details

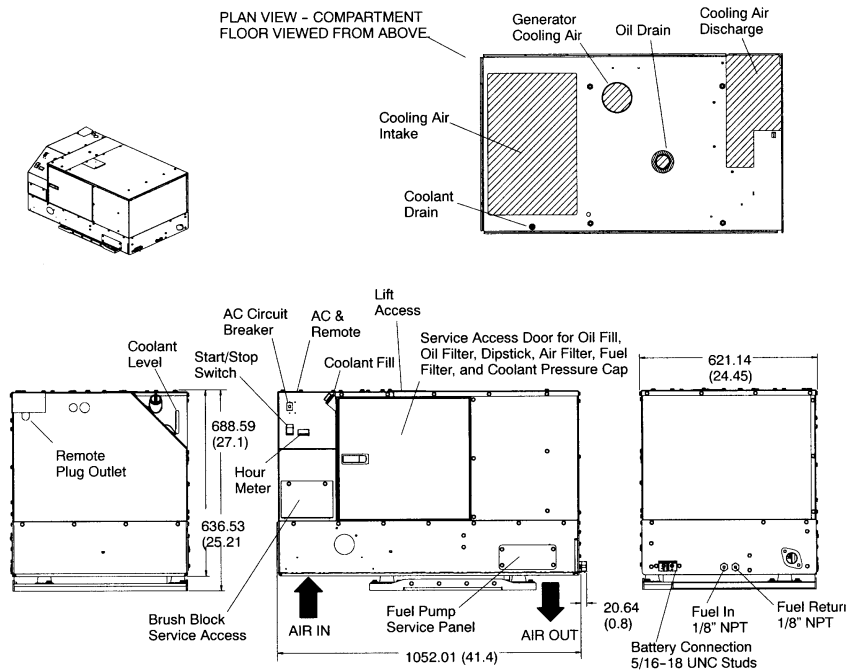
Design: Cummins Onan, brush type, drip-proof construction, 4 pole
Insulation system: Class H per NEMA MG1-1.66
Exciter system: Electronic voltage regulator

Bearings: Double sealed pre-lubricated ball bearing
Cooling: Direct drive centrifugal blower

Generator set performance

Frequency regulation	No load/Full load	±0.1%	Frequency variation	Constant load	±0.6%
Voltage regulation	No load/Full load	±2.0%	Voltage variation	Constant load	±0.5%

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

Options and accessories

- Exhaust elbow, 90° (P/N 155-3194)
- Exhaust adapter, 3 in (P/N 155-2610), 7 in (P/N 155-2424)
- Remote control pigtail (P/N 300-4947)
- Remote control harness pigtail at panel (P/N 338-3573)
- Remote control panel, switch only (P/N 300-4942)
- Remote control panel, switch and hour meter (P/N 300-4943)
- Remote control panel, switch and DC voltmeter (P/N 300-4944)
- Remote harness (for use with remote panels), 10 ft (P/N 338-3490-01), 30 ft (P/N 338-3490-02)

Standards and testing

- Tested at extremes of temperature -20 °F (-29 °C) to 120 °F (49 °C) for starting and operation
- Tested with commercial loads
- Tested in high humidity conditions
- Tested in salt spray conditions
- Tested in heavy airborne dust conditions
- Field test program
- This generator set was designed and manufactured in facilities certified to ISO 9001



Warranty policy

The Cummins Onan limited warranty covers virtually everything except routine maintenance for the first two years you own your generator set, or the first 2,000 hours of operation, whichever comes first. In addition, it includes a free 90-day adjustment policy, which provides that Cummins Inc. will make minor adjustments to your new generator set during the first three months you own it - free of charge!

⚠ 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

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 (A043D715), Installation (A043D716), Parts (A043T421), Service (A043M526).

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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Specifications are subject to change without notice.

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