

Commercial MicroQuiet™ 4000 GenSet



Gasoline
4.0 kW 60 Hz
3.6 kW 50 Hz
LP
3.6 kW 60 Hz
3.3 kW 50 Hz

Commercial GenSet

- Suitable for Medium-Duty Commercial Mobile Applications
- Microprocessor Control with Diagnostics
- Smooth, Quiet Operation
- Sealed Connectors
- Full Housing with Enclosed Muffler
- Lightweight, Compact
- Overhead Valve Engine
- One-Year/1000-Hour Limited Warranty

Models and Ratings

<u>Model</u>	<u>Fuel</u>	<u>Hz</u>	<u>Watts</u>	<u>Voltage</u>	<u>Amps</u>	<u>PF</u>	<u>Phase</u>	<u>Circuit Breaker</u>
4.0KY-FA/26100J	Gasoline	60	4000	120	33.3	1.0	1	1-pole, 30A
3.6KY-FA/26120J	LP vapor	60	3600	120	30.0	1.0	1	1-pole, 30A
4.0KY-FR/65697J	Gasoline	60	4000	100(1,4)	40.0	1.0	1	2-pole, 20A
4.0KY-FR/11429J	Gasoline	60	4000	100(2,4)	40.0	1.0	1	2-pole, 20A
4.0KY-FA/11580J	Gasoline	60	4000	120	33.3	1.0	1	1-pole, 30A
3.6KY-FR/11572J	Gasoline	50	3600	100	36.0	1.0	1	2-pole, 20A
3.3KY-FR/26119J	LP vapor	50	3300	230(3,4)	14.3	1.0	1	2-pole, 17A
3.6KY-FR/33742J	Gasoline	50	3600	230(3,4)	15.7	1.0	1	2-pole, 17A

-(1) Isolated neutral, (2) Grounded neutral, (3) Adjustable 220-240, (4) Reconnectable to 110/220, 115/230 or 120/240.

-All 60 Hz models operate at 3600 r/min. All 50 Hz models operate at 3000 r/min.

-Ratings apply up to 500 ft (152.4 m) altitude, 104° F 40° C ambient*.

-Maximum power capability decreases 3.5% for each 1000 ft (305 m) above 500 ft and 1% for each 10° F 5.5° C increase in ambient temperature above 104° F 40° C

-Ratings are at intermittent power output. Continuous ratings are 90% of intermittent.

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

Weight, Size and Sound Level

- 174 lb (83.4 kg)
- Length 30.5 in (774.7 mm), Width 20.6 in (523.2 mm), Height 16.4 in (416.6 mm)
- 60 Hz, 70 dB(A) at 10 ft (3 m), before installation, full load
- 50 Hz, 65 dB(A) at 10 ft (3 m), before installation, full load

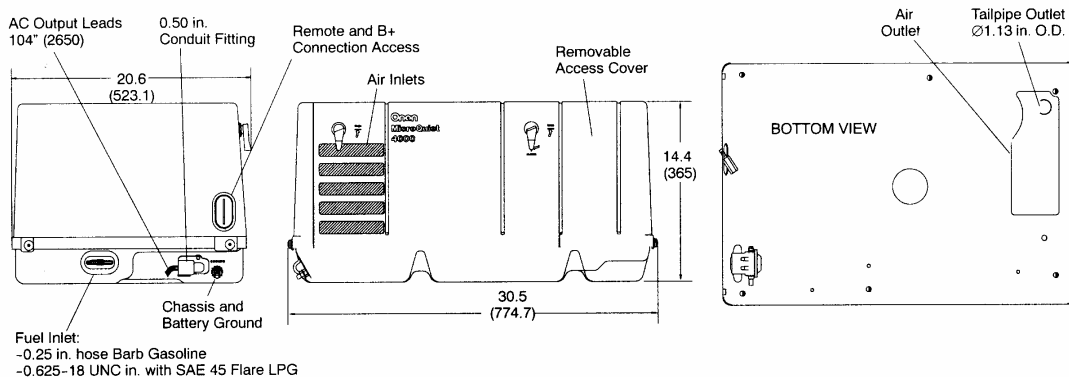
Standard Features

- Microprocessor control with digital voltage regulator
- Starter overcrank protection
- Generator field overload protection
- Over/under frequency protection
- Over/under voltage protection
- Loss of AC sense protection
- Mechanical fault protection
- Reverse connections and high battery voltage protection
- 4-point vibration isolation system
- Magnetic circuit breaker
- Automatic resetting of DC circuit overcurrent protection for set wiring and remote start wiring
- Integral enclosure cover and stamped steel base
- Stationary exhaust pipe attachment point
- High stability mechanical governor
- Detects starter faults
- Sealed remote start connector
- Automotive-type starter with automatic start disconnect
- Fuel filter
- Electronic magneto ignition
- USDA Forest Service-approved, spark-arresting muffler
- Cross-flow pressure cooling
- Automatic choke
- Electric fuel pump with positive fuel safety shutoff (gasoline)
- 125 in (3.2 m) generator output leads
- Electric fuel shutoff solenoid (LPG)
- Intake silencer, sound deadening material and baffles reduce sound level
- Start-stop/prime rocker switch on control with LED status indicator light for set diagnostics

Accessories

- Standard underfloor mounting kit (part #403-3670) bolts through floor
- Template, (part #539-1535-01) to use with the mounting kit (part #403-3670), may also be ordered
- Template for compartment mount (part #539-1546-01)
- Base adapter underfloor mounting kit (part #403-3630). Allows unit to be mounted using Marquis mounting kit. Can be used with Marquis housing kit part #405-4241 or equivalent
- Housing kit for underfloor mounting (part #405-4241) requires base adapter (part #403-3630)
- Battery, 12 V, 460 cold cranking amps at 0° F 18° C (part #416-0579)
- Remote control panel including start-stop/prime switch with status indicator light (part #300-5331)
- Remote control panel including start-stop/prime switch with status indicator light and hourmeter (part #300-5332)
- Remote control panel including start-stop/prime switch with status indicator light and DC voltmeter (part #300-5333)
- Remote control pigtail adapter (part #305-0979)
- Remote control plug and wire harness, 10 ft (part #338-3489-01), 30 ft (part #338-3489-02)
- Exhaust tailpipe kit (part #155-2845) tailpipe and special hanger
- Exhaust kit, 1.5 in (part #155-2847) 90° elbow
- Exhaust kit adapter (part #155-2850) straight tube adapter

Basic Dimensions



in. (mm)

This outline drawing is provided for general reference only and is not intended for design or installation. For more information see installation manual or obtain outline drawing 500-3297 and wiring diagram from your Distributor/Dealer.

Engine Detail

Model: Onan® E095H
Design: 4-cycle, overhead valve,
Cylinders: Single horizontal cylinder
Bore: 3.11 in (79 mm)
Stroke: 2.44 in (62 mm)
Displacement: 18.5 in³ (304 cm³)
Compression ratio: 8.5:1
Oil capacity: 1.6 qt (1.5 L)
Power (max):
at 3600 r/min:
LPG - 8.6 hp
Gasoline - 9.5 hp
at 3000 r/min:
LPG - 7.6 hp
Gasoline - 8.3 hp
Cooling: Cross flow air-pressure type
Cooling air volume:
60 Hz: 300 ft³/min (8.5 m³/min) at 3600 r/min
50 Hz: 250 ft³/min (7.1 m³/min) at 3000 r/min
Fuel system
Combustion air volume:
60 Hz: 19 ft³/min (0.5 m³/min) at 3600 r/min
50 Hz: 16 ft³/min (0.45 m³/min) at 3000 r/min

Typical fuel consumption

Gasoline, Gal/hr (L/hr)

	No load	Half load	Full load
4.0 KY	0.29 (1.10)	0.48 (1.80)	0.71 (2.70)
3.6 KY	0.20 (0.80)	0.37 (1.40)	0.58 (2.20)

LPG, Gal/hr (L/hr)

	No load	Half load	Full load
3.6 KY	0.36 (1.36)	0.57 (2.16)	0.73 (2.76)
3.3 KY	0.26 (0.98)	0.52 (1.97)	0.68 (2.57)

Starting system: Remote, 12 V, 3-wire negative ground

Starter: Automotive type with environmentally protected pinion; automatic start disconnect

Ignition system: Electronic magneto type

Lubrication: Splash lubrication

Cylinder-crankcase: Aluminum alloy with iron cylinder liner cast into the block, aluminum alloy oil base

Cylinder head: Aluminum, valves in head, removable

Electric fuel pump: Positive fuel shutoff (3 psi), fuel lift 3 ft (914 mm)

Air cleaner: Replaceable dry element

Sidedraft carburetor: KY (gasoline), patented automatic choke

Vapor withdrawal system with demand regulator: KY (LPG)

Alternator Detail

Design: Onan, revolving field, AC, 2-pole self-excited. Permanently aligned to engine by a tapered shaft. Drip-proof construction.

Insulation System: Class F, per NEMA MG1-1.65 and BS 2757

Cooling: Direct drive centrifugal blower; air required; includes engine cooling air volume:

60-Hz: 300 ft³/min (8.5 m³/min)

50 Hz: 250 ft³/min (7.1 m³/min)

Cast aluminum housing for excellent heat transfer

Rotor: Laminated electrical steel assembly press fitted to shaft, balanced. Heavy insulated copper wire windings. Amortisseur windings for improved waveform and motor starting.

Stator: Laminated electrical steel assembly. Heavy insulated copper wire windings.

DC brushes: Electrographic; long life

Bearing: Double-sealed, prelubricated ball bearing

regulator: Microprocessor control with digital voltage regulator

GenSet Detail

	No load - full load	Constant load
Voltage Regulation:	±2.5%	±1%
Frequency Regulation:	±2.5%	±1%

- **Air conditioner starting:** 60 Hz: Gasoline, One 13,5000 BTU air conditioner with 2,000 W baseload at 500 ft (152.4 m) and 100° F (38° C).

- **Frequency and voltage regulation:** Exceeds requirements of ANSI/RVIA EGS-1-1998.

Warranty Policy

The ONAN limited warranty covers virtually everything except routine maintenance for the first year you own your generator set, or the first 1000 hours of operation, whichever comes first. In addition, it 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!

For complete Onan limited warranty details see your certified Onan Distributor/Dealer.

After Sale Support

EASY TO LOCATE CERTIFIED ONAN SERVICE AND PARTS DEALERS - Onan has the largest and best-trained worldwide certified Distributor/Dealer network in the industry, offering on-time parts and service, and installation assistance. Cummins Onan Distributor/Dealers stock and sell commonly used Onan GenSet maintenance parts, accessories and products, plus operator manuals and literature on current Onan GenSets. They can help you select and install the right genset or accessories on older models, or provide answers to questions on proper operation and maintenance procedures.

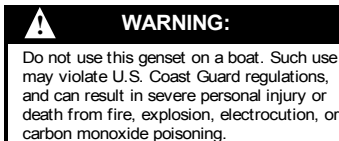
MANUALS - Installation and operators manuals are shipped with the genset. To obtain additional copies or other manuals for this model, see your Cummins Onan Distributor/Dealer and request the following part numbers: Operators Manual (981-0155), Parts Manual (981-0246B), Service Manual (981-0530), and Installation Manual (981-0621).

Standards and Testing

Tested at extremes of temperature -20° F to 120° F for starting and operation.
Tested with commercial loads.
Tested in high humidity conditions.
Tested in salt spray conditions.
Tested in heavy air borne dust conditions.
Field Test Program.

This generator set meets emissions regulations for U.S. EPA PH2 Small Engines and 2002-2005 California SI SORE.

This generator set was designed and manufactured in facilities certified to ISO 9001. 60Hz models (120 V only) CSA certified for CSA C22.2 std 100 and std 14.



Contact your Distributor/Dealer for more information:



To locate the nearest Onan Distributor/Dealer, or for more information, contact Onan at 1-800-888-ONAN or 763-574-5000; 1400 73rd Avenue N.E., Minneapolis, MN 55432 U.S.A.; fax 763-528-7242; e-mail feedback@onan.com; www.onan.com.

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WARNING: Backfeed to utility systems can cause electrocution or property damage. Do not connect to building electrical except through approved device and after building main breaker is opened.