

Cat® DG175

GAS GENERATOR SETS

NORTH AMERICA

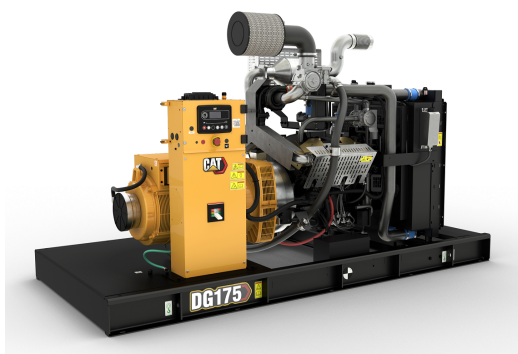


Image shown may not reflect actual configuration

| | |
|------------------------|---------------------------------------|
| Engine Model | 10.3L V8 TCAC |
| No. of Cylinders | 8 |
| Bore x Stroke | 116.8 mm x 120.6 mm |
| Displacement | 10.3 Liter |
| Compression Ratio | 9.6:1 |
| Aspiration | Turbocharged & Aftercooled |
| Fuel / Ignition System | Electronic Regulator / Spark Ignition |
| Governor | Electronic - G2 Class* capable |

For North America, 60 Hz Market

| Model | Emergency Standby | | Demand Response | | Prime | | Emissions Strategy |
|-------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--|
| | Natural Gas ekW | Propane ekW | Natural Gas ekW | Propane ekW | Natural Gas ekW | Propane ekW | |
| DG175 | 175 | 144 | 175 | 144 | 140 | 117 | U.S. EPA Certified for Emergency and Non-Emergency |

PACKAGE PERFORMANCE

| Performance | Emergency Standby | | Demand Response | | Prime | |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | Natural Gas | Propane | Natural Gas | Propane | Natural Gas | Propane |
| Frequency, Hz | 60 | | | | | |
| Genset power rating with fan, ekW (3-Phase) | 175 | 144 | 175 | 144 | 140 | 117 |
| Performance number | EM7511 | EM7513 | EM7515 | EM7517 | EM7519 | EM7521 |
| Fuel System / Fuel Consumption | | | | | | |
| Minimum required fuel delivery pressure at rail connector, psi (in. water) | 0.36 (10) | | | | | |
| Maximum required fuel delivery pressure at rail connector, psi (in. water) | 0.43 (12) | | | | | |
| 100% load with fan,kg/hr (CFH) | 47.7 (2145) | 46.9 (886) | 47.7 (2145) | 46.9 (886) | 40.8 (1835) | 40.8 (771) |
| 75% load with fan,kg/hr (CFH) | 37.3 (1678) | 36.8 (695) | 37.3 (1678) | 36.8 (695) | 32.1 (1443) | 32.0 (604) |
| 50% load with fan,kg/hr (CFH) | 26.8 (307) | 25.0 (472) | 26.8 (307) | 25.0 (472) | 23.4 (1052) | 23.2 (438) |
| Cooling System¹ | | | | | | |
| Radiator air flow, m³/min (CFM) | 498 (17588) | | | | | |
| Radiator air flow restriction (system), kPa (in. water) | 0.12 (0.48) | | | | | |
| Engine coolant capacity, L (gal) | 10.9 (2.8) | | | | | |
| Radiator coolant capacity, L (gal) | 32.2 (8.5) | | | | | |
| Total coolant capacity, L (gal) | 43.1 (11.3) | | | | | |
| Inlet Air | | | | | | |
| Combustion air inlet flow rate, m³/min (CFM) (kg/hr) | 12.3 (434) (789.2) | 12.2 (431) (780.3) | 12.3 (434) (789.2) | 12.2 (431) (780.3) | 10.5 (371) (675.2) | 10.4 (367) (669.7) |
| Maximum allowable intake air restriction, kPa (in. water) | 3.54 (14.2) | | | | | |
| Exhaust System | | | | | | |
| Exhaust gas temperature after turbo, °C (°F) | 782 (1440) | 820 (1508) | 782 (1440) | 820 (1508) | 775 (1427) | 793 (1459) |
| Exhaust gas flow rate, m³/min (CFM) (kg/hr) | 46.9 (1656) (837) | 47.2 (1666) (827) | 46.9 (1656) (837) | 47.2 (1667) (827) | 38.6 (1363) (716) | 39.5 (1395) (711) |
| Exhaust system back pressure max allowable, kPa (in. water) | 20 (80.4) | | | | | |

PACKAGE PERFORMANCE (contd.)

| Heat Rejection | Standby | | Demand Response | | Prime | |
|--|-------------|-------------|-----------------|-------------|-------------|------------|
| | Natural Gas | Propane | Natural Gas | Propane | Natural Gas | Propane |
| Heat rejection to jacket water, kW (BTU/min) | 112 (6369) | 105 (5971) | 112 (6369) | 105 (5971) | 102 (5800) | 97 (5516) |
| Heat rejection to after cooler, kW (BTU/min) | 25 (1422) | 20 (1137) | 25 (1422) | 20 (1137) | 19 (1080) | 16 (910) |
| Heat rejection to oil cooler, kW (BTU/min) | 35.4 (2013) | 33 (1876) | 35.4 (2013) | 33 (1876) | 33 (1877) | 32 (1820) |
| Heat rejection to atmosphere from engine, kW (BTU/min) | 46 (2616) | 46 (2619) | 46 (2616) | 46 (2619) | 37 (2104) | 43 (2445) |
| Heat rejection to exhaust (Total), kW (BTU/min) | 197 (11203) | 200 (11374) | 197 (11203) | 200 (11374) | 167 (9497) | 166 (9440) |
| Lube System | | | | | | |
| Oil dry fill capacity, L (gal) | 13.7 (3.6) | | | | | |
| Maximum oil temperature, °C (°F) | 121 (250) | | | | | |
| Maximum oil capacity, L (gal) | 13.8 (3.6) | | | | | |
| Minimum oil capacity, L (gal) | 10.4 (2.7) | | | | | |
| Emissions (Meets EPA Stationary Non-Emergency Limits) | | | | | | |
| NOx + HC, g/kW-hr | 0.8 | | | | | |
| CO, g/kW-hr | 20.6 | | | | | |

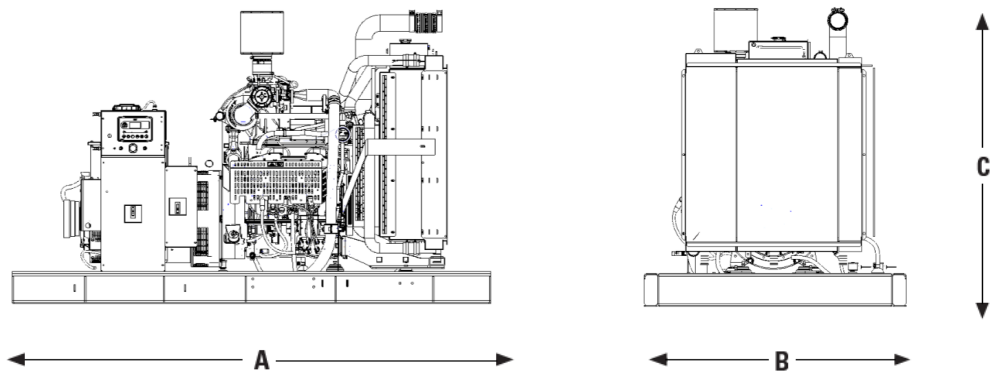
ALTERNATOR DATA

| DG175 | | | | | |
|---|---------------|-----------|-----------|-----------|-----------|
| Alternator | 60 Hz 3-Phase | | | | |
| Voltages | 480/277 | 240/120 | 240/139 | 208/120 | 600/346 |
| Temperature rise, °C | 105 | 105 | 105 | 105 | 105 |
| Motor starting capability @ 30% Voltage Dip, skVA | 629 | 490 | 629 | 490 | 599 |
| Frame size | M2736L4 | M2736L4 | M2736L4 | M2736L4 | M2736L4 |
| Excitation | PMG | PMG | PMG | PMG | AREP |
| Rated Current, Amps - Natural Gas / Propane | | | | | |
| Standby | 263 / 216 | 526 / 433 | 526 / 433 | 607 / 499 | 210 / 173 |
| Demand Response | 263 / 216 | 526 / 433 | 526 / 433 | 607 / 499 | 210 / 173 |
| Prime | 210 / 175 | 421 / 352 | 421 / 352 | 486 / 406 | 168 / 140 |

Motor starting capability is based on the assumption of 0.6 pf.

Temperature rise is based on the rating type and the respective site conditions.

WEIGHTS & DIMENSIONS



| Length "A" mm (in) | Width "B" mm (in) | Height "C" mm (in) | Dry Weight Kg (lb) |
|-----------------------|----------------------|-----------------------|-----------------------|
| 2985 (117.5) | 1600 (63) | 1820 (72) | 1780 (3924) |

Note: General configuration not to be used for installation. See general dimension drawings for detail.

APPLICABLE CODES AND STANDARDS:

CSA C22.2 No 100-04, UL142, UL489, UL869, cUL/UL2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO 3046, ISO 8528, NEMA MG 1-33.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.

EMERGENCY STANDBY POWER (ESP): Typical usage of 50 hours per year with a maximum of 200 hours per year with varying loads. Average variable load factor is 70% of the ESP rating. No overload is available. Not for maintained utility paralleling applications.

DEMAND RESPONSE POWER: Output available with varying load when participating in a demand response or economic dispatch program. Average power output is 70% of the standby rated kW. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

PRIME POWER: Output available with varying load for an unlimited time. Average power output is 70% of the prime rated kW. Typical peak demand is 100% of prime rated kW.

Ratings are based on SAE J1349 standard conditions.
These ratings also apply at ISO 3046 standard conditions.

1 CFH = 1000 BTU/HR

Fuel Rates are based on LHV of 35.83 MJ/Nm³ for Natural Gas and 92.1 MJ/Nm³ for Propane Vapor @77°F (25°C) and 328 ft (100 m) above sea level and a relative humidity of 30%.Temperatures and elevations greater than this standard must be accounted for as follows:

A derate of 1.5% for every 5°C above 25°C air inlet temperature.
A derate of 2.2% for every 200m above 100m.

DEFINITIONS AND CONDITIONS

- ¹ For ambient and altitude capabilities, consult your Cat dealer.
Air flow restriction (system) is added to the existing restriction from the factory.
- ² Generator temperature rise is based on 40°C (104°F) ambient per NEMA MG1-32.
- *Governing Class capability as per ISO-8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

LET’S DO THE WORK.™

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Cat® DG175

GAS GENERATOR SETS

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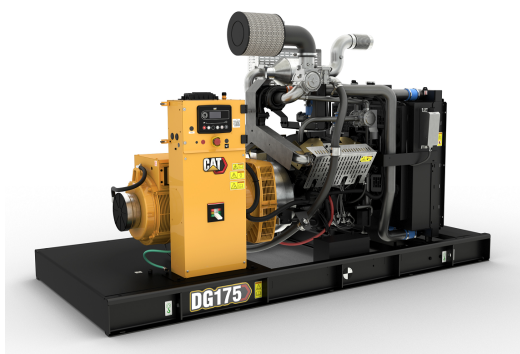


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| Compression Ratio | 9.6:1 |
| Aspiration | Turbocharged & Aftercooled |
| Fuel / Ignition System | Electronic Regulator / Spark Ignition |
| Governor | Electronic - G2 Class* capable |

For Latin America, 60 Hz Market

| Model | Emergency Standby | | Prime | | Emissions Strategy |
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| DG175 | 175 | 144 | 140 | 117 | U.S. EPA Certified for Emergency and Non-Emergency |

PACKAGE PERFORMANCE

| Performance | Emergency Standby | | Prime | |
|--|--------------------|--------------------|--------------------|--------------------|
| | Natural Gas | Propane | Natural Gas | Propane |
| Frequency, Hz | 60 | | | |
| Genset power rating with fan, kW (3-Phase) | 175 | 144 | 140 | 117 |
| Performance number | EM7511 | EM7511 | EM7519 | EM7521 |
| Fuel System / Fuel Consumption | | | | |
| Minimum required fuel delivery pressure at rail connector, psi (in. water) | 0.36 (10) | | | |
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| Oil dry fill capacity, L (gal) | 13.7 (3.6) | | | |
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| Maximum oil capacity with cooling package, L (gal) | 13.8 (3.6) | | | |
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| Emissions (Meets EPA Stationary Non-Emergency Limits) | | | | |
| NOx + HC, g/kW-hr | 0.8 | | | |
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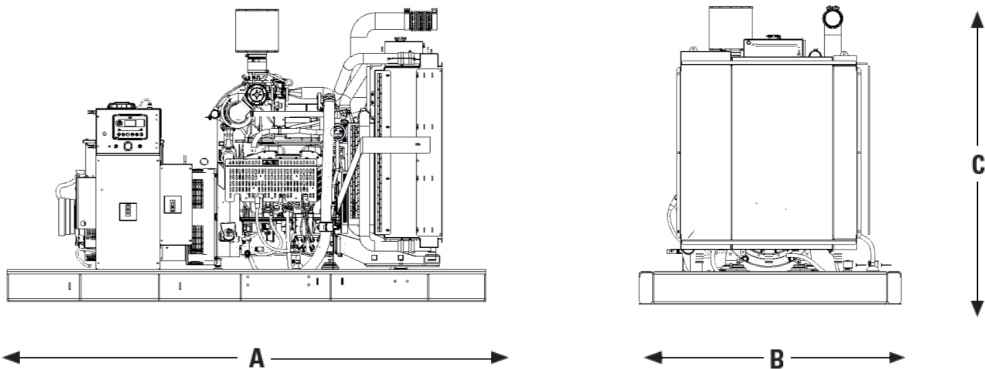
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| Voltages | 480/277 | 380/220 | 220/127 | 240/120 | 240/139 | 208/120 | 600/346 |
| Temperature rise ² , °C | 105 | 105 | 105 | 105 | 105 | 105 | 105 |
| Motor starting capability @ 30% Voltage Dip, skVA | 629 | 416 | 444 | 490 | 629 | 490 | 599 |
| Frame size | M2736L4 | M2736L4 | M2294L4 | M2736L4 | M2736L4 | M2736L4 | M2736L4 |
| Excitation | PMG | PMG | PMG | PMG | PMG | PMG | AREP |
| Rated Current, Amps - Natural Gas / Propane | | | | | | | |
| Emergency Standby | 263 / 216 | 332 / 273 | 574 / 472 | 526 / 433 | 526 / 433 | 607 / 499 | 210 / 173 |
| Prime | 210 / 175 | 266 / 222 | 459 / 384 | 421 / 352 | 421 / 352 | 486 / 406 | 168 / 140 |

Motor starting capability is based on the assumption of 0.6 pf.

Temperature rise is based on the rating type and the respective site conditions.

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