# Cat® C9 DIESEL GENERATOR SETS

**Standby & Prime: 50Hz**

Image shown might not reflect actual configuration

| | |
|---|---|
| Engine Model | Cat® C9 In-line 6, 4-cycle Diesel |
| Bore x Stroke | 112mm x 149mm (4.4in x 5.9in) |
| Displacement | 8.8 L (538 $in^3$) |
| Compression Ratio | 16.1:1 |
| Aspiration | Turbocharged Air-to-Air Aftercooled |
| Fuel Injection System | HEUI |
| Governor | Electronic ADEM™ A4 - G3 Class* capable |

| Model | Standby | Prime | Emission Strategy |
|---|---|---|---|
| **DE330E0** | **330 kVA, 264 ekW** | **300 kVA, 240 ekW** | **Non-Certified Emissions** |

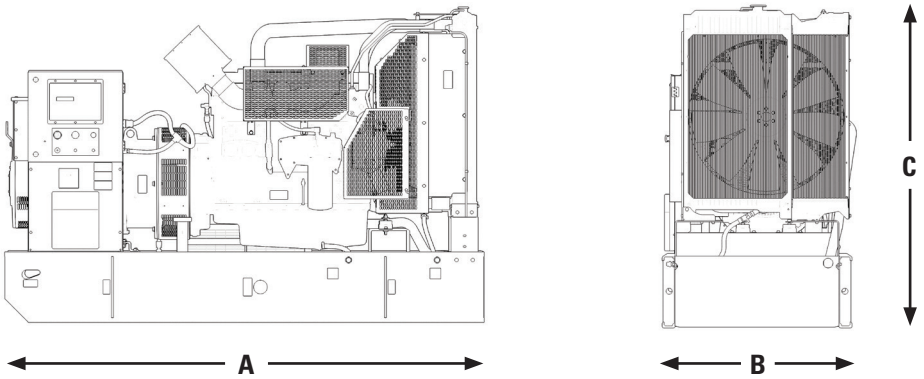
## PACKAGE PERFORMANCE

| Performance | Standby | Prime |
|---|---|---|
| Frequency | 50 Hz | |
| Genset Power Rating | 330 kVA | 300 kVA |
| Genset power rating with fan @ 0.8 power factor | 264 ekW | 240 ekW |
| Emissions | Non-Certified Emissions | |
| Performance Number | EM0815 | EM1033 |
| **Fuel Consumption** | | |
| 100% load with fan, L/hr (gal/hr) | 70.4 (18.6) | 60.5 (16) |
| 75% load with fan, L/hr (gal/hr) | 52.6 (13.9) | 48.8 (12.9) |
| 50% load with fan, L/hr (gal/hr) | 37 (9.8) | 35.9 (9.5) |
| 25% load with fan, L/hr (gal/hr) | 22.3 (5.9) | 20.8 (5.5) |
| **Cooling System[1]** | | |
| Radiator air flow restriction (system), kPa (in. water) | 0.12 (0.48) | 0.12 (0.48) |
| Radiator air flow, $m^3$/min (cfm) | 438 (14443) | 438 (14443) |
| Engine coolant capacity, L (gal) | 13.9 (3.7) | 13.9 (3.7) |
| Radiator coolant capacity, L (gal) | 43 (11.5) | 43 (11.5) |
| Total coolant capacity, L (gal) | 56.9 (15.2) | 56.9 (15.2) |
| **Inlet Air** | | |
| Combustion air inlet flow rate, $m^3$/min (cfm) | 17.5 (620) | 16.4 (581) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 48 (118) | 48 (118) |
| **Exhaust System** | | |
| Exhaust stack gas temperature, °C (°F) | 575 (1067) | 545 (1012) |
| Exhaust gas flow rate, $m^3$/min (cfm) | 53.06 (1874) | 45.3 (1600) |
| Exhaust system backpressure (maximum allowable), kPa (in. water) | 10.0 (40.0) | 10.0 (40.0) |
| **Heat Rejection** | | |
| Heat rejection to jacket water, kW (Btu/min) | 119 (6765) | 110 (6283) |
| Heat rejection to exhaust (total), kW (Btu/min) | 245 (13944) | 220 (12517) |
| Heat rejection to aftercooler, kW (Btu/min) | 37 (2121) | 45 (2552) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 28 (1607) | 25.6 (1457) |

| Emissions (Nominal)[2] | Standby | Prime |
|---|---|---|
| NOx, mg/Nm³ (g/hp-hr) | 2991 (6.06) | 3132 (6.52) |
| CO, mg/Nm³ (g/hp-hr) | 824 (1.68) | 832.1 (1.75) |
| HC, mg/Nm³ (g/hp-hr) | 14 (0.05) | 14.9 (0.04) |
| PM, mg/Nm³ (g/hp-hr) | 29.1 (0.07) | 24.4 (0.06) |

| Alternator[3] | | | | |
|---|---|---|---|---|
| Voltages | **230V** | **380V** | **400V** | **415V** |
| Motor starting capability @ 30% Voltage Dip | 1205 skVA | 1081 skVA | 1205 skVA | 1296 skVA |
| Current | 828 amps | 501 amps | 476 amps | 459 amps |
| Frame Size | A2675L4 | A2675L4 | A2675L4 | A2675L4 |
| Excitation | SE | SE | SE | SE |
| Temperature Rise | 125°C | 125°C | 125°C | 125°C |

## WEIGHTS & DIMENSIONS




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

| Dim "A" mm (in) | Dim "B" mm (in) | Dim "C" mm (in) | Dry Weight kg (lb) |
|---|---|---|---|
| **2662 (89)** | **1030 (41)** | **1754 (69)** | **2261 (4985)** |

## APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO3046, ISO8528, NEMA MG1-33, EAC,CE,UKCA.

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

**STANDBY:** Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

**PRIME:** Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

## DEFINITIONS AND CONDITIONS

[1] For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

[2] Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 BTU/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

[3] Generator temperature rise is based on a 40° C ambient per IEC60034-1.

* Governing Class capability as per ISO8528-5.Consult your local Cat dealer for configuration and site specific transient performance classification.

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