

Standby & Prime: 50Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|--|
| Engine Model | Cat® C9 ACERT™ In-line 6, 4-cycle diesel |
| Bore x Stroke | 112mm x 149mm (4.4in x 5.9in) |
| Displacement | 8.8 L (538 in³) |
| Compression Ratio | 16.1:1 |
| Aspiration | Turbocharged Air-to-Air Aftercooled |
| Fuel Injection System | HEUI |
| Governor | Electronic ADEM™ A4 - G3 Class* capable |

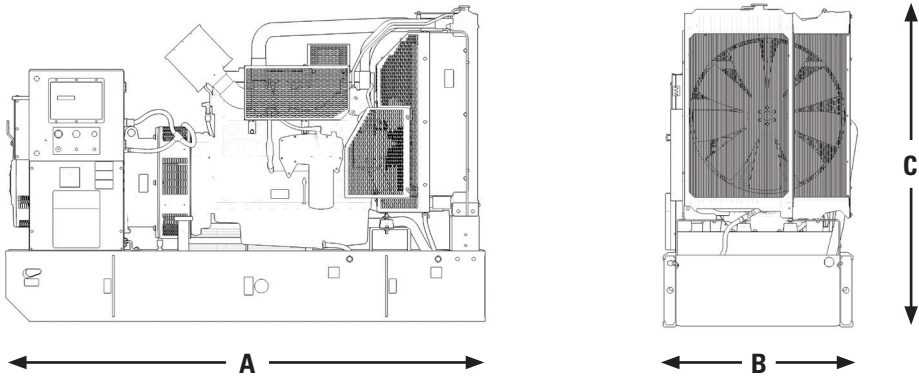
| Model | Standby | Prime | Emission Strategy |
|---------|------------------|------------------|-------------------------|
| DE275E0 | 275 kVA, 220 ekW | 250 kVA, 200 ekW | Non-Certified Emissions |

PACKAGE PERFORMANCE

| Performance | Standby | Prime |
|---|-------------------------|-------------|
| Frequency | 50 Hz | |
| Genset Power Rating | 275 kVA | 250 kVA |
| Genset power rating with fan @ 0.8 power factor | 220 ekW | 200 ekW |
| Emissions | Non-Certified Emissions | |
| Performance Number | EM0878 | EM1035 |
| Fuel Consumption | | |
| 100% load with fan, L/hr (gal/hr) | 57.5 (15.1) | 52.4 (13.8) |
| 75% load with fan, L/hr (gal/hr) | 44 (11.6) | 40.3 (10.6) |
| 50% load with fan, L/hr (gal/hr) | 31.5 (8.3) | 29.1 (7.6) |
| 25% load with fan, L/hr (gal/hr) | 19.4 (5.1) | 18.3 (4.8) |
| Cooling System¹ | | |
| Radiator air flow restriction (system), kPa (in. Water) | 0.12 (0.48) | 0.12 (0.48) |
| Radiator air flow, m³/min (cfm) | 409 (14443) | 409 (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, m³/min (cfm) | 16.1 (537) | 15.2 (537) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 48 (118) | 48 (118) |
| Exhaust System | | |
| Exhaust stack gas temperature, °C (°F) | 470 (878) | 471 (880) |
| Exhaust gas flow rate, m³/min (cfm) | 38.8 (1371) | 39.1 (1381) |
| 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) | 111 (6312) | 103 (5857) |
| Heat rejection to exhaust (total) kW (Btu/min) | 177 (10065) | 162 (9212) |
| Heat rejection to aftercooler, kW (Btu/min) | 30.4 (1729) | 27.6 (1570) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 38 (2161) | 32.8 (1865) |

| Emissions (Nominal) ² | Standby | | Prime | |
|---|------------|----------|-------------|----------|
| NOx, mg/Nm³ (g/hp-hr) | 4407 (9.1) | | 4216 (8.8) | |
| CO, mg/Nm³ (g/hp-hr) | 845 (1.76) | | 717 (1.5) | |
| HC, mg/Nm³ (g/hp-hr) | 15 (0.04) | | 14.4 (0.03) | |
| PM, mg/Nm³ (g/hp-hr) | 33 (0.09) | | 30.6 (0.08) | |
| Alternator ³ | | | | |
| Voltages | 230V | 380V | 400V | 415V |
| Motor starting capability @ 30% Voltage Dip | 546 skVA | 493 skVA | 546 skVA | 588 skVA |
| Current | 690 amps | 403 amps | 397 amps | 362 amps |
| Frame Size | R2475L4 | R2475L4 | R2475L4 | R2475L4 |
| Excitation | SE | SE | SE | SE |
| Temperature Rise | 130°C | 130°C | 130°C | 130°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) | 2096 (4621) |

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.
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 kW 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 UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.
- * Governing Class capability as per ISO8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

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