

Standby & Prime: 50 Hz & 60 Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|--|
| Engine Model | Cat [®] C7.1 Inline 4-stroke Diesel |
| Bore x Stroke | 105.0mm x 135.0mm (4.1in x 5.3 in) |
| Displacement | 7.0 L (427.8 in ³) |
| Compression Ratio | 18.2:1 |
| Aspiration | Turbocharged |
| Fuel Injection System | Inline |
| Governor | Mechanical |

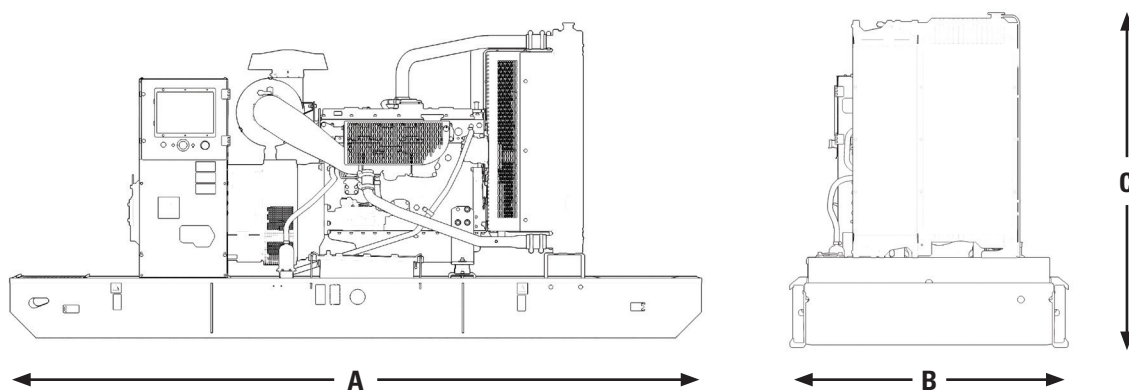
| Model | Standby | | Prime | | Emission Strategy |
|---------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------|
| | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| DE150E0 | 150.0 kVA (120.0 kW) | 165.0 kVA (132.0 kW) | 135.0 kVA (108.0 kW) | 150.0 kVA (120.0 kW) | Low BSFC |

PACKAGE PERFORMANCE

| Performance | Standby | | Prime | |
|---|--------------|--------------|--------------|--------------|
| | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| Frequency | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| Genset Power Rating | 150.0 kVA | 165.0 kVA | 135.0 kVA | 150.0 kVA |
| Genset power rating with fan @ 0.8 power factor | 120.0 kW | 132.0 kW | 108.0 kW | 120.0 kW |
| Emissions | Low BSFC | | | |
| Performance Number | P4408A | P4454A | P4408A | P4454A |
| Fuel Consumption | | | | |
| Fuel Tank Capacity, litres (US gal) | 349 (92.2) | | | |
| 100% load with fan, L/hr (gal/hr) | 33.2 (8.8) | 36.2 (9.6) | 29.7 (7.8) | 32.7 (8.6) |
| 75% load with fan, L/hr (gal/hr) | 24.8 (6.6) | 27.4 (7.2) | 22.4 (5.9) | 25.3 (6.7) |
| 50% load with fan, L/hr (gal/hr) | 17.4 (4.6) | 20.6 (5.4) | 16.1 (4.3) | 19.7 (5.2) |
| Cooling System¹ | | | | |
| Radiator air flow, m ³ /min (cfm) | 228.6 (8073) | 234.0 (8264) | 228.6 (8073) | 234.0 (8264) |
| Total coolant capacity, L (gal) | 21.0 (5.5) | | | |
| Inlet Air | | | | |
| Max. Combustion Air Intake Restriction, kPa (in H ₂ O) | 5.0 (20.1) | | | |
| Combustion air inlet flow rate, m ³ /min (cfm) | 8.1 (286) | 11.5 (405) | 7.6 (270) | 11.0 (387) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 50 (122) | | | |
| Exhaust System | | | | |
| Exhaust stack gas temperature, °C (°F) | 561 (1042) | 526 (979) | 561 (1042) | 526 (979) |
| Exhaust gas flow rate, m ³ /min (cfm) | 20.5 (725) | 29.1 (1026) | 18.9 (666) | 27.2 (959) |
| Exhaust system backpressure (maximum allowable), kPa (in. water) | 6.0 (1.8) | | | |
| Heat Rejection | | | | |
| Heat rejection to jacket water, kW (Btu/min) | 82.0 (4663) | 92.0 (5232) | 74.9 (4259) | 84.2 (4788) |
| Heat rejection to alternator, kW (Btu/min) | 9.8 (557) | 10.2 (580) | 9.8 (557) | 10.2 (580) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 25.1 (1427) | 25.1 (1427) | 20.9 (1189) | 22.6 (1285) |

| Alternator ³ | 50 Hz | | | | 60 Hz | | | |
|---|----------|------|------|------|-------|------|------|------|
| | Voltages | 415V | 400V | 380V | 220V | 480V | 440V | 380V |
| Motor starting capability @ 30% Voltage Dip, skVA | 213 | 200 | 182 | 237 | 235 | 201 | 154 | 182 |
| Current, amps | 209 | 217 | 228 | 361 | 198 | 217 | 226 | 458 |
| Temperature Rise, °C | 125/40 | | | | | | | |
| Frame Size | M2254L4 | | | | | | | |
| Excitation | S.E | | | | | | | |

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) |
|-----------------|-----------------|-----------------|--------------------|
| 2500 (98.4) | 1120 (44.1) | 1430 (56.3) | 1512 (3333) |

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.

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