# Cat® C3.3
## Diesel Generator Sets

**Standby & Prime: 50 Hz**

Image shown might not reflect actual configuration

| | |
|---|---|
| Engine Model | Cat® C3.3 Inline 4-stroke Diesel |
| Bore x Stroke | 105.0 mm x 127.0 mm (4.1 in x 5.0 in) |
| Displacement | 3.3 L (201.4 in³) |
| Compression Ratio | 19.25:1 |
| Aspiration | Naturally Aspirated |
| Fuel Injection System | Inline |
| Governor | Mechanical |

| Model | Standby | Prime | Emission Strategy |
|---|---|---|---|
| DE26E0S | 50 Hz | 50 Hz | Low BSFC |
| | 26.0 kVA (26.0 kW) | 24.0 kVA (24.0 kW) | |

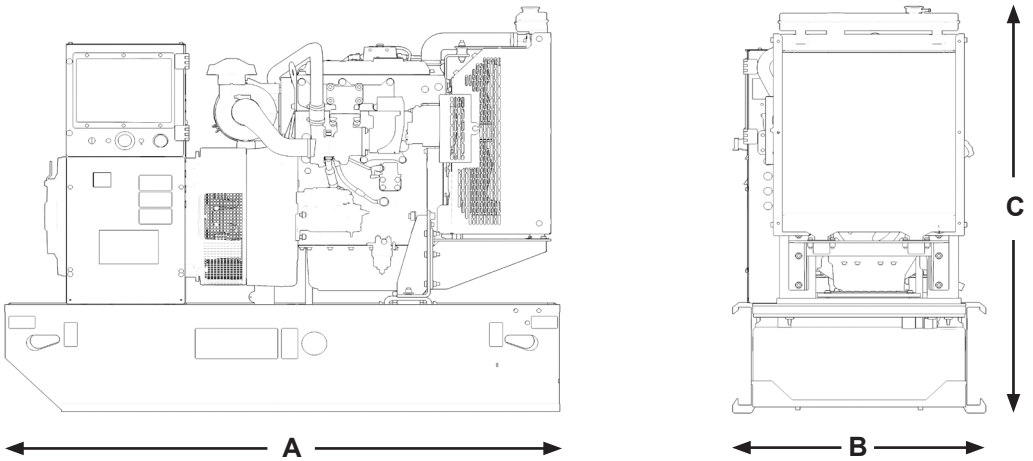
### PACKAGE PERFORMANCE

| Performance | Standby | Prime |
|---|---|---|
| Frequency | 50 Hz | 50 Hz |
| Genset Power Rating | 26.0 kVA | 24.0 kVA |
| Genset power rating with fan @ 1.0 power factor | 26.0 kW | 24.0 kW |
| Emissions | Low BSFC | |
| Performance Number | P2490B | |
| **Fuel Consumption** | | |
| Fuel Tank Capacity, litres (US gal) | 161 (42.5) | |
| 100% load with fan, L/hr (gal/hr) | 7.5 (2.0) | 6.9 (1.8) |
| 75% load with fan, L/hr (gal/hr) | 5.6 (1.5) | 5.2 (1.4) |
| 50% load with fan, L/hr (gal/hr) | 4.0 (1.1) | 3.8 (1.0) |
| **Cooling System[1]** | | |
| Radiator air flow, m³/min (cfm) | 62.6 (2211) | |
| Total coolant capacity, L (gal) | 10.2 (2.7) | |
| **Inlet Air** | | |
| Max. Combustion Air Intake Restriction, kPa (in $H_2O$) | 6.5 (26.1) | |
| Combustion air inlet flow rate, m³/min (cfm) | 2.2 (76) | 2.1 (75) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 50 (122) | |
| **Exhaust System** | | |
| Exhaust stack gas temperature, °C (°F) | 512 (954) | 500 (932) |
| Exhaust gas flow rate, m³/min (cfm) | 6.0 (212) | |
| Exhaust system backpressure (maximum allowable), kPa (in $H_2O$) | 8.0 (2.4) | |
| **Heat Rejection** | | |
| Heat rejection to jacket water, kW (Btu/min) | 16.0 (910) | 18.0 (1024) |
| Heat rejection to alternator, kW (Btu/min) | 2.8 (159) | |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 8.8 (500) | 7.5 (427) |

# C3.3 Diesel Generator Sets
# Electric Power

| Alternator[3] | 50 Hz | | |
|---|---|---|---|
| Voltages | 240V | 230V | 220V |
| Motor starting capability @ 30% Voltage Dip, skVA | 59 | 57 | 54 |
| Current, amps | 108 | 113 | 118 |
| Temperature Rise, °C | 125/40 | | |
| Frame Size | LCB1514J | | |
| Excitation | S.E | | |

## WEIGHTS & DIMENSIONS




| Dim "A" mm (in) | Dim "B" mm (in) | Dim "C" mm (in) | Dry Weight kg (lb) |
|---|---|---|---|
| 1540 (60.6) | 970 (38.2) | 1361 (53.6) | 827 (1823) |

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

## APPLICABLE CODES AND STANDARDS:

AS1359, 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 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 NEMA MG1-32.

LET'S DO THE WORK.™

LEHE0688-04 (03/22)