# Cat® C1C2
## Diesel Generator Sets

**Standby & Prime: 50 Hz & 60 Hz**



Image shown might not reflect actual configuration.

| | |
|---|---|
| Engine Model | Cat® C1.5 In-line 4, 4-cycle diesel |
| Bore x Stroke | 84 mm x 90 mm (3.3 in x 3.5 in) |
| Displacement | 1.5 L (91.3 in³) |
| Compression Ratio | 22.5:1 |
| Aspiration | Naturally Aspirated |
| Fuel Injection System | Inline |
| Governor | Mechanical |

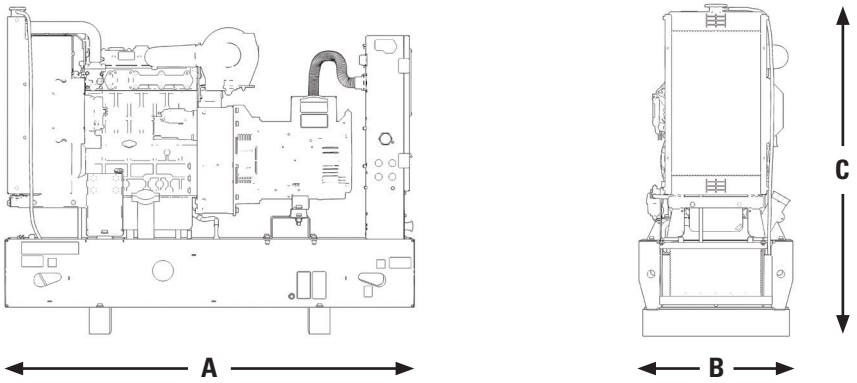
| Model | Standby | | Prime | | Emission Strategy |
|---|---|---|---|---|---|
| DE13.5E3 | 50 Hz | 60 Hz | 50 Hz | 60 Hz | EU IIIA |
| | 13.5 kVA | 16.5 kVA | 12.5 kVA | 15.0 kVA | |

### PACKAGE PERFORMANCE

| Performance | Standby | | Prime | |
|---|---|---|---|---|
| Frequency | 50 Hz | 60 Hz | 50 Hz | 60 Hz |
| Genset Power Rating | 13.5 kVA | 16.5 kVA | 12.5 kVA | 15.0 kVA |
| Genset power rating with fan @ 0.8 power factor | 10.8 ekW | 13.2 ekW | 10.0 ekW | 12.0 ekW |
| Emissions | EU IIIA | | | |
| **Fuel Consumption** | | | | |
| 110% load with fan, L/hr (gal/hr) | NA | | 4.0 (1.1) | 4.9 (1.3) |
| 100% load with fan, L/hr (gal/hr) | 4.0 (1.1) | 4.9 (1.3) | 3.7 (1.0) | 4.3 (1.1) |
| 75% load with fan, L/hr (gal/hr) | 3.0 (0.8) | 3.5 (0.9) | 2.8 (0.7) | 3.2 (0.8) |
| 50% load with fan, L/hr (gal/hr) | 2.1 (0.6) | 2.5 (0.7) | 2.0 (0.5) | 2.4 (0.6) |
| **Cooling System[1]** | | | | |
| Radiator air flow restriction (system), kPa (in water) | 0.5 (2) | 0.5 (2) | 0.5 (2) | 0.5 (2) |
| Radiator air flow, m³/min (CFM) | 28.8 (1017) | 37.2 (1314) | 28.8 (1017) | 37.2 (1314) |
| Total coolant capacity, L (gal) | 6.0 (1.6) | 6.0 (1.6) | 6.0 (1.6) | 6.0 (1.6) |
| **Inlet Air** | | | | |
| Combustion air inlet flow rate, m³/min (CFM) | 1.1 (38) | 1.2 (43) | 1.1 (38) | 1.2 (43) |
| Max. Allowable Combustion Air Inlet Temp, °C | 50 | 50 | 50 | 50 |
| **Exhaust System** | | | | |
| Exhaust stack gas temperature, °C (°F) | 490 (914) | 505 (941) | 445 (833) | 455 (851) |
| Exhaust gas flow rate, m³/min (CFM) | 2.9 (102) | 3.4 (119) | 2.7 (95) | 3.1 (111) |
| Exhaust system backpressure (maximum allowable), kPa (in water) | 10.2 (41) | 10.2 (41) | 10.2 (41) | 10.2 (41) |
| **Heat Rejection** | | | | |
| Heat rejection to jacket water, kW (BTU/min) | 12.9 (734) | 15.2 (864) | 11.6 (660) | 13.6 (773) |
| Heat rejection to atmosphere from engine & alternator, kW (BTU/min) | 6.0 (341) | 7.1 (404) | 5.4 (307) | 6.3 (358) |

| Alternator[2] | | 50 Hz | | | | | | 60 Hz | |
|---|---|---|---|---|---|---|---|---|---|
| Duty Cycle | | Standby | | | Prime | | | Standby | Prime |
| Phase | | 3-Phase | | | 3-Phase | | | 3-Phase | 3-Phase |
| Voltages, V | | 380/220 | 400/230 | 415/240 | 380/220 | 400/230 | 415/240 | 220/127 | 220/127 |
| Current, Amps – LC Frame | | 21 | 20 | 19 | 19 | 18 | 17 | 43.3 | 39.4 |
| Current, Amps – M Frame | | 24 | 23 | 22 | 22 | 21 | 20 | | |
| Frame: LC1114D Excitation: SE | Temperature Rise, @ 40°C | 163 | 163 | 163 | 125 | 125 | 125 | 150 | 125 |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 25 | 27 | 28 | 25 | 27 | 28 | 27 | 27 |
| Frame: LC1114M Excitation: SE | Temperature Rise, @ 40 °C | 163 | 163 | 163 | 125 | 125 | 125 | | |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 48 | 52 | 55 | 48 | 52 | 55 | | |

## WEIGHTS & DIMENSIONS




| Dim "A" mm (in) | Dim "B" mm (in) | Dim "C" mm (in) | Dry Weight kg (lb) |
|---|---|---|---|
| 1400 (55.1) | 620 (24.4) | 1054 (41.5) | 371 (818) |

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

## APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO 3046, ISO 8528, NEMA MG1-33, EAC, CE, UKCA.

**Note:** Codes may not be available in all model configurations. Please consult your Cat dealer 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 ISO 3046 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] Generator temperature rise is based on a 40°C ambient per IEC60034-1.

www.cat.com/electricpower
©2025 Caterpillar
All rights reserved.
Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.
CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.