

Standby & Prime: 60Hz & 50Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|---|
| Engine Model | Cat [®] C1.1 In-line 3, 4-cycle diesel |
| Bore x Stroke | 77mm x 81mm (3.0in x 3.2in) |
| Displacement | 1.1 L (69 in ³) |
| Compression Ratio | 23:1 |
| Aspiration | Naturally Aspirated |
| Fuel Injection System | Inline |
| Governor | Mechanical |

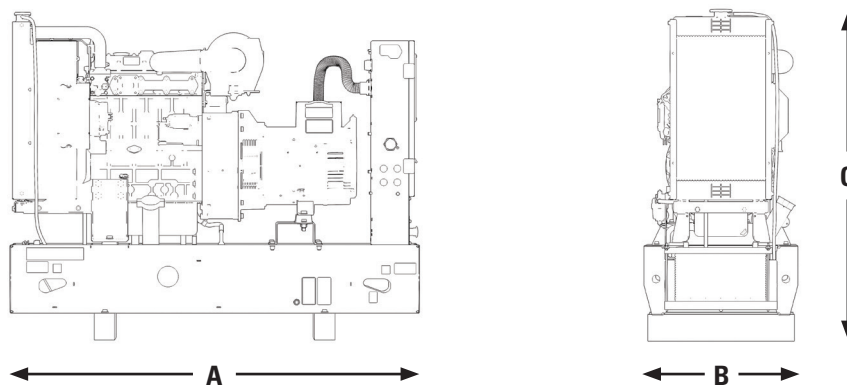
| Model | Standby | | Prime | | Emission Strategy |
|---------|---------|----------|---------|----------|-------------------|
| | 50 Hz | 60 Hz | 50 Hz | 60 Hz | |
| DE9.5E3 | 9.5 kVA | 11.0 kVA | 8.5 kVA | 10.0 kVA | EU IIIA (EUR-I) |

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 | 9.5 kVA | 11.0 kVA | 8.5 kVA | 10.0 kVA |
| Genset power rating with fan @ 0.8 power factor | 7.6 ekW | 8.8 ekW | 6.8 ekW | 8.0 ekW |
| Emissions | EU IIIA (EUR-I) | | | |
| Fuel Consumption | | | | |
| 110% load with fan, L/hr (gal/hr) | NA | | 2.8 (0.7) | 3.3 (0.9) |
| 100% load with fan, L/hr (gal/hr) | 2.8 (0.7) | 3.3 (0.9) | 2.5 (0.7) | 2.9 (0.8) |
| 75% load with fan, L/hr (gal/hr) | 2.1 (0.6) | 2.4 (0.6) | 2.0 (0.5) | 2.2 (0.6) |
| 50% load with fan, L/hr (gal/hr) | 1.6 (0.4) | 1.8 (0.5) | 1.5 (0.4) | 1.8 (0.5) |
| Cooling System¹ | | | | |
| Radiator air flow restriction (system), kPa (in. Water) | 125 (0.5) | 125 (0.5) | 125 (0.5) | 125 (0.5) |
| Radiator air flow, m ³ /min (cfm) | 24.0 (848) | 32.7 (1155) | 24.0 (848) | 32.7 (1155) |
| Total coolant capacity, L (gal) | 5.2 (1.4) | 5.2 (1.4) | 5.2 (1.4) | 5.2 (1.4) |
| Inlet Air | | | | |
| Combustion air inlet flow rate, m ³ /min (cfm) | 0.7 (25) | 0.9 (32) | 0.7 (25) | 0.9 (32) |
| Max. Allowable Combustion Air Inlet Temp, °C | 50 | 50 | 50 | 50 |
| Exhaust System | | | | |
| Exhaust stack gas temperature, °C (°F) | 420 (788) | 515 (959) | 368 (694) | 437 (819) |
| Exhaust gas flow rate, m ³ /min (cfm) | 1.8 (64) | 2.4 (85) | 1.7 (59) | 2.2 (78) |
| Exhaust system backpressure (maximum allowable), kPa (in. Hg) | 10.2 (3) | 10.2 (3) | 10.2 (3) | 10.2 (3) |
| Heat Rejection | | | | |
| Heat rejection to jacket water, kW (Btu/min) | 9.5 (540) | 12.0 (682) | 8.3 (472) | 10.0 (569) |
| Heat rejection to atmosphere from engine & alternator, kW (Btu/min) | 4.2 (239) | 4.9 (279) | 3.2 (182) | 4.2 (239) |

| Alternator ³ | 50 Hz | | | 60 Hz |
|---|-----------|-----------|-----------|-----------|
| Voltages | 415/240V | 400/230V | 380/220V | 220/127V |
| Motor starting capability @ 30% Voltage Dip | 28 kVA | 27 kVA | 25 kVA | 27 kVA |
| Current | 13.2 amps | 13.7 amps | 14.4 amps | 28.9 amps |
| Frame Size | LC1114D | | | |
| Excitation | SE | | | |
| Temperature Rise | 105°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) |
|-----------------|-----------------|-----------------|--------------------|
| 1500 (59.1) | 860 (33.9) | 895 (35.2) | 237 (523) |

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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