

Standby & Prime: 60Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|---|
| Engine Model | Cat [®] C13 ACERT™ In-line 6, 4-cycle diesel |
| Bore x Stroke | 130mm x 157mm (5.1 in x 6.2 in) |
| Displacement | 12.5 L (763 in ³) |
| Compression Ratio | 16.3:1 |
| Aspiration | Turbocharged Air-to-Air Aftercooled |
| Fuel Injection System | MEUI |
| Governor | Electronic ADEM™ A4 |

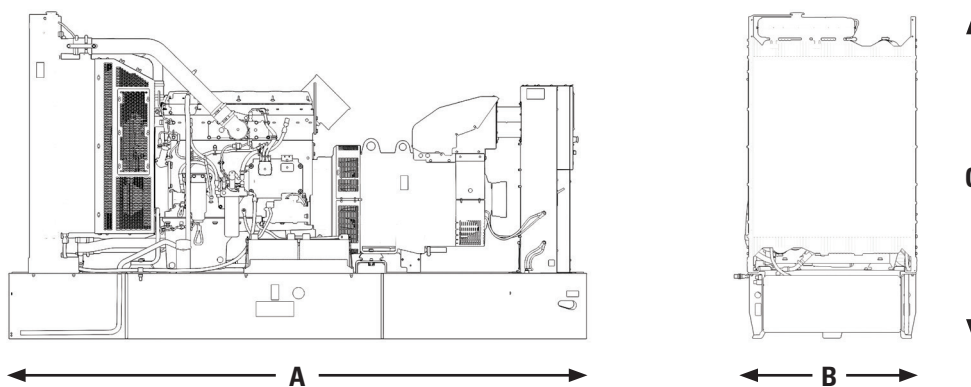
| Model | Standby | Prime | Emission Strategy |
|----------|------------------|------------------|-------------------------|
| DE400SE0 | 500 kVA, 400 ekW | 438 kVA, 350 ekW | Non-Certified Emissions |

PACKAGE PERFORMANCE

| Performance | Standby | Prime |
|---|-------------------------|--------------|
| Frequency | 60 Hz | |
| Genset Power Rating | 500 kVA | 438 kVA |
| Genset power rating with fan @ 0.8 power factor | 400 ekW | 350 ekW |
| Emissions | Non-Certified Emissions | |
| Performance Number | EM0423 | EM0435 |
| Fuel Consumption | | |
| 100% load with fan, L/hr (gal/hr) | 107.5 (28.4) | 93.4 (24.7) |
| 75% load with fan, L/hr (gal/hr) | 81.0 (21.4) | 71.5 (18.9) |
| 50% load with fan, L/hr (gal/hr) | 56.4 (14.9) | 50.7 (13.4) |
| 25% load with fan, L/hr (gal/hr) | 33.6 (8.9) | 31.0 (8.2) |
| Cooling System¹ | | |
| Radiator air flow restriction (system), kPa (in. Water) | 0.12 (0.48) | 0.12 (0.48) |
| Radiator air flow, m ³ /min (cfm) | 538 (18999) | 538 (18999) |
| Engine coolant capacity, L (gal) | 14.3 (3.8) | 14.3 (3.8) |
| Radiator coolant capacity, L (gal) | 43 (11.5) | 43 (11.5) |
| Total coolant capacity, L (gal) | 57.3 (15.3) | 57.3 (15.3) |
| Inlet Air | | |
| Combustion air inlet flow rate, m ³ /min (cfm) | 27.1 (960) | 24.7 (873.5) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 48 (118) | 48 (118) |
| Exhaust System | | |
| Exhaust stack gas temperature, °C (°F) | 577 (1071) | 547.0 (1016) |
| Exhaust gas flow rate, m ³ /min (cfm) | 82.4 (2911) | 71.5 (2525) |
| 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) | 157 (8981) | 144 (8183) |
| Heat rejection to exhaust (total) kW (Btu/min) | 386 (21950) | 332 (18877) |
| Heat rejection to aftercooler, kW (Btu/min) | 70 (3997) | 55 (3135) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 73 (4122) | 63 (3574) |

| Emissions (Nominal) ² | Standby | | | Prime | |
|---|-------------|-----------|----------|------------|-----------|
| NOx, mg/Nm ³ (g/hp-hr) | 2396 (4.86) | | | 2679 (5.2) | |
| CO, mg/Nm ³ (g/hp-hr) | 631 (1.27) | | | 665 (1.3) | |
| HC, mg/Nm ³ (g/hp-hr) | 5.7 (0.01) | | | 4.7 (0.01) | |
| Alternator ³ | | | | | |
| Voltages | 220V | 240V | 380V | 440V | 480V |
| Motor starting capability @ 30% Voltage Dip | 1126 skVA | 1340 skVA | 839 skVA | 1126 skVA | 1340 skVA |
| Current | 1247 amps | 1203 amps | 689 amps | 656 amps | 601 amps |
| Frame Size | A2955L4 | A2955L4 | A2955L4 | A2955L4 | A2955L4 |
| Excitation | SE | SE | SE | SE | SE |
| Temperature Rise | 125°C | 125°C | 125°C | 125°C | 125°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) |
|-----------------|-----------------|-----------------|--------------------|
| 3830 (151) | 1130 (44) | 2156 (85) | 3253 (7172) |

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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LEHE1634-01 (05/20)

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