

Standby & Prime: 60Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|-------------------------------------|
| Engine Model | Cat® C4.4 In-line 4, 4-cycle diesel |
| Bore x Stroke | 105.0mm x 127.0mm (4.13in x 5.0 in) |
| Displacement | 4.4 L (268.5 in ³) |
| Compression Ratio | 18.2:1 |
| Aspiration | Turbocharged |
| Fuel Injection System | Common Rail |
| Governor | Electronic (adjustable) |

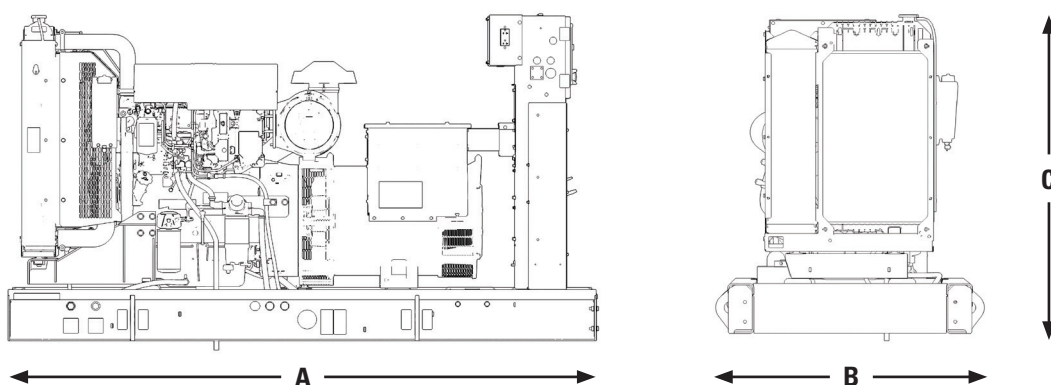
| Model | Prime | Emission Strategy |
|-------|-----------------|--|
| C4.4 | 50 ekW (63 kVA) | SCAQMD Complaint (Meets nonroad U.S. EPA Tier 3 equivalent emission standards) |

PACKAGE PERFORMANCE

| Performance | Prime |
|--|--------------|
| Frequency | 60 Hz |
| Genset Power Rating | 63 kVA |
| Genset power rating with fan @ 0.8 power factor | 50 ekW |
| Performance Number | P3454A-00 |
| Fuel Consumption | |
| 100% load with fan, L/hr (gal/hr) | 16.8 (4.4) |
| 75% load with fan, L/hr (gal/hr) | 12.8 (3.4) |
| 50% load with fan, L/hr (gal/hr) | 9.3 (2.5) |
| Cooling System ¹ | |
| Radiator air flow restriction (system), kPa (in. Water) | 0.12 (0.48) |
| Engine coolant capacity, L (gal) | 7.0 (1.8) |
| Radiator coolant capacity, L (gal) | 9.5 (2.5) |
| Total coolant capacity, L (gal) | 16.5 (4.4) |
| Inlet Air | |
| Combustion air inlet flow rate, m ³ /min (cfm) | 5.3 (187.2) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 50 (122) |
| Exhaust System | |
| Exhaust stack gas temperature, °C (°F) | 571 (1060) |
| Exhaust gas flow rate, m ³ /min (cfm) | 13.7 (483.8) |
| Exhaust system backpressure (maximum allowable), kPa (in. water) | 15.0 (60.2) |
| Heat Rejection | |
| Heat rejection to coolant, kW (Btu/min) | 46.1 (2622) |
| Heat rejection to exhaust (total), kW (Btu/min) | 66.9 (3805) |
| Heat rejection to atmosphere from engine, kW (Btu/min) | 14.9 (847.3) |

| Emissions (Nominal) ² | Prime |
|---|--------------|
| NOx + HC, g/kW-hr | 4.42 |
| CO, g/kW-hr | 1.02 |
| PM, g/kW-hr | 0.26 |
| Alternator ³ | |
| Voltages | 480V |
| Motor starting capability @ 30% Voltage Dip | 131 skVA |
| Frame Size | LC1514N |
| Excitation | Self Excited |
| Temperature Rise | 130°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) |
|-----------------|-----------------|-----------------|--------------------|
| 1972 (77.6) | 1000 (39.4) | 1175 (46.3) | 981 (2163) |

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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LEHE1841-01 (05/20)

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