

Standby & Prime: 60Hz



Image shown might not reflect actual configuration

| | |
|-----------------------|-------------------------------------|
| Engine Model | Cat® C13 In-line 6, 4-cycle Diesel |
| Bore x Stroke | 130 mm x 157 mm (5.1 in x 6.2 in) |
| Displacement | 12.5 L (763 in³) |
| Compression Ratio | 16.3:1 |
| Aspiration | Turbocharged Air-to-Air Aftercooled |
| Fuel Injection System | MEUI |
| Governor | Electronic ADEM™ A4 |

| Model | Standby | Prime | Emission Strategy |
|------------|-------------------------|----------------------------|--------------------------|
| C13 | 400 ekW, 500 kVA | 365 ekW, 456.25 kVA | TIER III Non-Road |

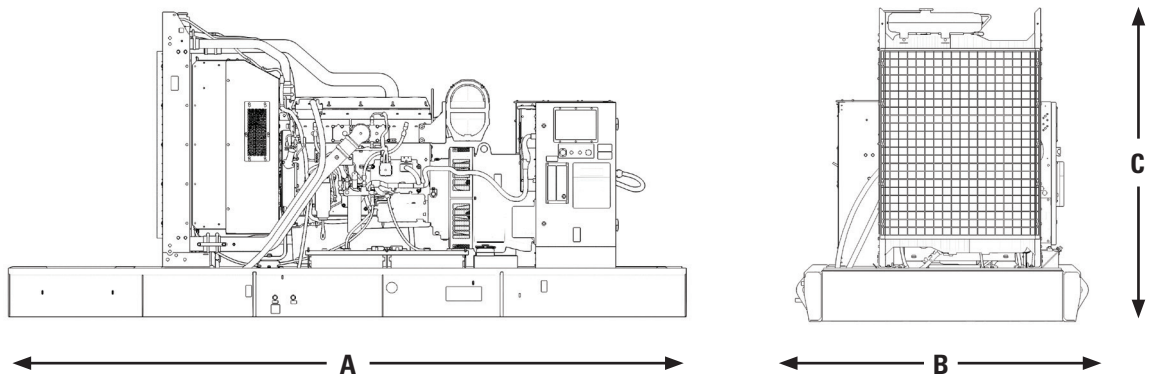
PACKAGE PERFORMANCE

| Performance | Standby | Prime |
|---|-------------------|--------------|
| Frequency | 60 Hz | |
| Genset Power Rating | 500 kVA | 456.25 kVA |
| Genset power rating with fan @ 0.8 power factor | 400 ekW | 365 ekW |
| Emissions | TIER III Non-Road | |
| Performance Number | EM1694 | EM1695 |
| Fuel Consumption | | |
| 100% load with fan, L/hr (gal/hr) | 105.0 (27.7) | 95.4 (25.2) |
| 75% load with fan, L/hr (gal/hr) | 88.6 (23.4) | 82.9 (21.8) |
| 50% load with fan, L/hr (gal/hr) | 64.7 (17) | 60.0 (15.8) |
| 25% load with fan, L/hr (gal/hr) | 36.8 (9.7) | 34.3 (9.0) |
| Cooling System¹ | | |
| Radiator air flow restriction (system), kPa (in. water) | 0.12 (0.48) | 0.12 (0.48) |
| Radiator air flow, m³/min (CFM) | 497 (17551) | 497 (17551) |
| Engine coolant capacity, L (gal) | 14.2 (3.8) | 14.2 (3.8) |
| Radiator coolant capacity, L (gal) | 30 (8) | 30 (8) |
| Total coolant capacity, L (gal) | 34 (12) | 34 (12) |
| Inlet Air | | |
| Combustion air inlet flow rate, m³/min (CFM) | 27.7 (978) | 26.0 (918) |
| Max. Allowable Combustion Air Inlet Temp, °C (°F) | 47 (116) | 45 (113) |
| Exhaust System | | |
| Exhaust stack gas temperature, °C (°F) | 570.5 (1059) | 554.5 (1030) |
| Exhaust gas flow rate, m³/min (CFM) | 83.2 (2938) | 76.0 (2684) |
| 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 (8928) | 146 (8302) |
| Heat rejection to exhaust (total), kW (BTU/min) | 405 (23032) | 366 (20814) |
| Heat rejection to aftercooler, kW (BTU/min) | 72.6 (4128) | 61.9 (3520) |
| Heat rejection to atmosphere from engine, kW (BTU/min) | 51.4 (2923) | 48.2 (2741) |

| Emissions (Nominal) ² | Standby | Prime |
|-----------------------------------|----------------|----------------|
| NOx, mg/Nm ³ (g/hp-hr) | 2,481.2 (4.98) | 2,318.5 (4.65) |
| CO, mg/Nm ³ (g/hp-hr) | 1,150.6 (2.32) | 614.4 (1.23) |
| HC, mg/Nm ³ (g/hp-hr) | 7.5 (0.02) | 4.6 (0.01) |
| PM, mg/Nm ³ (g/hp-hr) | 41.1 (0.1) | 22.4 (0.06) |

| Alternator ³ | | | | | | | | | | | |
|------------------------------------|---|---------|------|------|------|------|---------|------|------|------|------|
| Duty Cycle | | Standby | | | | | Prime | | | | |
| Phase | | 3-Phase | | | | | 3-Phase | | | | |
| Voltages, V | | 208 | 220 | 240 | 480 | 600 | 208 | 220 | 240 | 480 | 600 |
| Current, Amps | | 1388 | 1312 | 1203 | 601 | 481 | 1266 | 1197 | 1098 | 549 | 439 |
| Frame: LC6124D Excitation: AREP | Temperature Rise @ 40°C | 130 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 | 105 |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 1008 | 1118 | 1309 | 1309 | 1408 | 1008 | 1118 | 1309 | 1309 | 1408 |
| Frame: LC6124F Excitation: AREP | Temperature Rise @ 40°C | 130 | 105 | 105 | 150 | 105 | 105 | 105 | 105 | 125 | 80 |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 1325 | 1466 | 1712 | 1712 | 1714 | 1325 | 1466 | 1712 | 1712 | 1714 |
| Frame: LC6124B Excitation: AREP | Temperature Rise @ 40°C | | | 150 | 150 | 150 | | | 125 | 125 | 125 |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | | | 1055 | 1055 | 1057 | | | 1055 | 1055 | 1057 |
| Frame: LC6114D Excitation: SE | Temperature Rise @ 40°C | 130 | 105 | 105 | 105 | | 105 | 105 | 105 | 105 | |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 839 | 930 | 1089 | 1089 | | 839 | 930 | 1089 | 1089 | |
| Frame: LC6114F Excitation: SE | Temperature Rise @ 40°C | 105 | 105 | 105 | 105 | | 80 | 80 | 80 | 80 | |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | 1104 | 1222 | 1428 | 1428 | | 1104 | 1222 | 1428 | 1428 | |
| Frame: LC6114B Excitation: SE | Temperature Rise @ 40°C | | | 150 | 150 | | | | 125 | 125 | |
| | Motor Starting Capability @ 30% Voltage Dip, skVA | | | 880 | 880 | | | | 880 | 880 | |

WEIGHTS & DIMENSIONS



| Dim "A" mm (in) | Dim "B" mm (in) | Dim "C" mm (in) | Dry Weight kg (lb) |
|-----------------|-----------------|-----------------|--------------------|
| 3505 (138) | 1652 (65) | 2069 (82) | 3823 (8427) |

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

APPLICABLE CODES AND STANDARDS:

CSA C22.2 No 100-04, UL142, UL489, UL869, cUL/UL2200, NFPA 37, NFPA 70, NFPA 99,NFPA 110, IBC, IEC60034-1, ISO 3046, ISO 8528, NEMA MG 1-33.

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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