

**C15 ACERT**  
**455 ekW/ 569 kVA/ 60 Hz/ 1800 rpm/ 600 V/ 0.8 Power Factor**

**Rating Type: PRIME**

**Emissions: U.S. EPA Certified for Stationary Emergency Use Only (Tier 2 Nonroad Equivalent Emission Standards)**



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Image shown may not reflect actual configuration

**Metric English**

| <b>Package Performance</b>                      |         |     |
|---|---------|-----|
| Genset Power Rating with Fan @ 0.8 Power Factor | 455 ekW |     |
| Genset Power Rating                             | 569 kVA |     |
| Aftercooler (Separate Circuit)                  | N/A     | N/A |

| <b>Fuel Consumption</b> |            |             |
|-------------------------|------------|-------------|
| 100% Load with Fan      | 125.7 L/hr | 33.2 gal/hr |
| 75% Load with Fan       | 100.8 L/hr | 26.6 gal/hr |
| 50% Load with Fan       | 81.9 L/hr  | 21.6 gal/hr |
| 25% Load with Fan       | 48.6 L/hr  | 12.8 gal/hr |

| <b>Cooling System<sup>1</sup></b> |        |         |
|-----------------------------------|--------|---------|
| Engine Coolant Capacity           | 20.8 L | 5.5 gal |

| <b>Inlet Air</b>                         |                          |            |
|--|--------------------------|------------|
| Combustion Air Inlet Flow Rate           | 37.0 m <sup>3</sup> /min | 1305.0 cfm |
| Max. Allowable Combustion Air Inlet Temp | 46 ° C                   | 115 ° F    |

| <b>Exhaust System</b>                           |                          |                |
|---|--------------------------|----------------|
| Exhaust Stack Gas Temperature                   | 492.8 ° C                | 919.0 ° F      |
| Exhaust Gas Flow Rate                           | 99.0 m <sup>3</sup> /min | 3496.2 cfm     |
| Exhaust System Backpressure (Maximum Allowable) | 10.0 kPa                 | 40.0 in. water |



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| <b>Heat Rejection</b>                       |        |               |
|---|--------|---------------|
| Heat Rejection to Jacket Water              | 175 kW | 9962 Btu/min  |
| Heat Rejection to Exhaust (Total)           | 455 kW | 25856 Btu/min |
| Heat Rejection to Aftercooler               | 103 kW | 5837 Btu/min  |
| Heat Rejection to Atmosphere from Engine    | 85 kW  | 4858 Btu/min  |
| Heat Rejection to Atmosphere from Generator | 26 kW  | 1479 Btu/min  |

| <b>Alternator<sup>2</sup></b>               |           |
|---|-----------|
| Motor Starting Capability @ 30% Voltage Dip | 1714 skVA |
| Current                                     | 547 amps  |
| Frame Size                                  | LC6124F   |
| Excitation                                  | AR        |
| Temperature Rise                            | 105 ° C   |

| <b>Emissions (Nominal)<sup>3</sup></b> |                           |             |
|--|---------------------------|-------------|
| NOx                                    | 2725.7 mg/Nm <sup>3</sup> | 5.6 g/hp-hr |
| CO                                     | 207.9 mg/Nm <sup>3</sup>  | 0.4 g/hp-hr |
| HC                                     | 3.8 mg/Nm <sup>3</sup>    | 0.0 g/hp-hr |
| PM                                     | 9.6 mg/Nm <sup>3</sup>    | 0.0 g/hp-hr |

**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. 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.
3. 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.



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**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.

**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** are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions

**Fuel Rates** are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Cat representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

[www.Cat-ElectricPower.com](http://www.Cat-ElectricPower.com)

Performance No.: DM8154-04

Feature Code: C15DECF

Generator Arrangement: 4183893

Date: 02/10/2016

Source Country: U.S.

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