

C9 ACERT
180 ekW/ 225 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 3 Nonroad Equivalent Emission Standards)



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Image shown may not reflect actual configuration

Metric English

Package Performance

Genset Power Rating with Fan @ 0.8 Power Factor	180 ekW	
Genset Power Rating	225 kVA	
Aftercooler (Separate Circuit)	N/A	N/A

Fuel Consumption

100% Load with Fan	52.9 L/hr	14.0 gal/hr
75% Load with Fan	42.8 L/hr	11.3 gal/hr
50% Load with Fan	31.9 L/hr	8.4 gal/hr
25% Load with Fan	19.5 L/hr	5.1 gal/hr

Cooling System¹

Engine Coolant Capacity	13.9 L	3.7 gal
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Inlet Air

Combustion Air Inlet Flow Rate	21.0 m ³ /min	740.3 cfm
Max. Allowable Combustion Air Inlet Temp	49 ° C	121 ° F

Exhaust System

Exhaust Stack Gas Temperature	426.9 ° C	800.4 ° F
Exhaust Gas Flow Rate	50.4 m ³ /min	1779.3 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water



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Heat Rejection		
Heat Rejection to Jacket Water	82 kW	4638 Btu/min
Heat Rejection to Exhaust (Total)	210 kW	11939 Btu/min
Heat Rejection to Aftercooler	50 kW	2861 Btu/min
Heat Rejection to Atmosphere from Engine	12 kW	699 Btu/min
Heat Rejection to Atmosphere from Generator	13 kW	734 Btu/min

Alternator²	
Motor Starting Capability @ 30% Voltage Dip	656 skVA
Current	217 amps
Frame Size	LC5024H
Excitation	AR
Temperature Rise	80 ° C

Emissions (Nominal)³		
NOx	1196.7 mg/Nm ³	2.4 g/hp-hr
CO	162.4 mg/Nm ³	0.4 g/hp-hr
HC	54.4 mg/Nm ³	0.1 g/hp-hr
PM	29.1 mg/Nm ³	0.1 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

Performance No.: EM0094-05

Feature Code: C09DE46

Generator Arrangement: 4490573

Date: 11/07/2015

Source Country: U.S.

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