

C9 ACERT
225 ekW/ 281 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	225 ekW	
Genset Power Rating	281 kVA	
Aftercooler (Separate Circuit)	N/A	N/A

Fuel Consumption		
100% Load with Fan	68.9 L/hr	18.2 gal/hr
75% Load with Fan	55.7 L/hr	14.7 gal/hr
50% Load with Fan	42.0 L/hr	11.1 gal/hr
25% Load with Fan	27.2 L/hr	7.2 gal/hr

Cooling System ¹		
Engine Coolant Capacity	13.9 L	3.7 gal

Inlet Air		
Combustion Air Inlet Flow Rate	24.2 m ³ /min	855.3 cfm
Max. Allowable Combustion Air Inlet Temp	50 ° C	122 ° F

Exhaust System		
Exhaust Stack Gas Temperature	444.1 ° C	831.3 ° F
Exhaust Gas Flow Rate	59.8 m ³ /min	2112.4 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water



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Heat Rejection		
Heat Rejection to Jacket Water	99 kW	5631 Btu/min
Heat Rejection to Exhaust (Total)	259 kW	14720 Btu/min
Heat Rejection to Aftercooler	72 kW	4115 Btu/min
Heat Rejection to Atmosphere from Engine	26 kW	1500 Btu/min
Heat Rejection to Atmosphere from Generator	17 kW	978 Btu/min

Alternator²	
Motor Starting Capability @ 30% Voltage Dip	656 skVA
Current	271 amps
Frame Size	LC5024H
Excitation	AR
Temperature Rise	105 ° C

Emissions (Nominal)³		
NOx	1355.4 mg/Nm ³	2.7 g/hp-hr
CO	188.9 mg/Nm ³	0.4 g/hp-hr
HC	44.2 mg/Nm ³	0.1 g/hp-hr
PM	37.0 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.: DM8505-03

Feature Code: C09DE47

Generator Arrangement: 4490573

Date: 02/11/2016

Source Country: U.S.

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