

3412C

720 ekW/ 900 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor

Rating Type: STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION

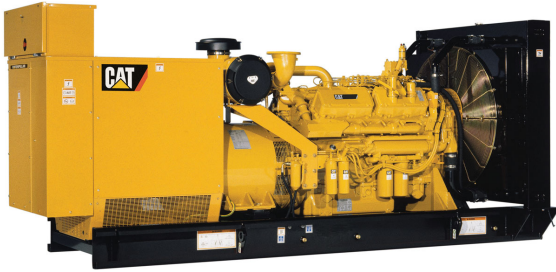


Image shown may not reflect actual configuration

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	Metric	English
<b>Package Performance</b>		
Genset Power Rating with Fan @ 0.8 Power Factor	720 ekW	
Genset Power Rating	900 kVA	
Aftercooler (Separate Circuit)	91.0 ° C	195.8 ° F
<b>Fuel Consumption</b>		
100% Load with Fan	191.7 L/hr	50.6 gal/hr
75% Load with Fan	143.8 L/hr	38.0 gal/hr
50% Load with Fan	99.5 L/hr	26.3 gal/hr
25% Load with Fan	57.0 L/hr	15.0 gal/hr
<b>Cooling System<sup>1</sup></b>		
Engine Coolant Capacity	58.6 L	15.5 gal
<b>Inlet Air</b>		
Combustion Air Inlet Flow Rate	54.6 m <sup>3</sup> /min	1928.7 cfm
Max. Allowable Combustion Air Inlet Temp	93 ° C	200 ° F
<b>Exhaust System</b>		
Exhaust Stack Gas Temperature	544.2 ° C	1011.5 ° F
Exhaust Gas Flow Rate	156.4 m <sup>3</sup> /min	5521.9 cfm
Exhaust System Backpressure (Maximum Allowable)	6.7 kPa	27.0 in. water



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Heat Rejection		
Heat Rejection to Jacket Water	431 kW	24527 Btu/min
Heat Rejection to Exhaust (Total)	701 kW	39846 Btu/min
Heat Rejection to Aftercooler	115 kW	6518 Btu/min
Heat Rejection to Atmosphere from Engine	120 kW	6801 Btu/min
Heat Rejection to Atmosphere from Generator	28 kW	1575 Btu/min

Alternator <sup>2</sup>	
Motor Starting Capability @ 30% Voltage Dip	1629 skVA
Current	1299 amps
Frame Size	598
Excitation	PM
Temperature Rise	130 ° C

Emissions (Nominal) <sup>3</sup>		
NOx	3167.8 mg/Nm <sup>3</sup>	6.1 g/hp-hr
CO	443.3 mg/Nm <sup>3</sup>	1.0 g/hp-hr
HC	248.1 mg/Nm <sup>3</sup>	0.6 g/hp-hr
PM	51.5 mg/Nm <sup>3</sup>	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.

**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.

**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.: DM1909-04

Feature Code: 412DEBL

Generator Arrangement: 1533079

Date: 08/31/2016

Source Country: CHINA

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