

C175-16

3000 ekW/ 3750 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Rating Type: STANDBY

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

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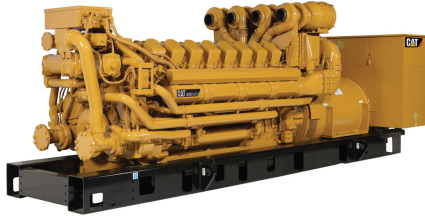


Image shown may not reflect actual configuration

Metric English

Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	3000 ekW	
Genset Power Rating	3750 kVA	
Aftercooler (Separate Circuit)	46.0 ° C	114.8 ° F

Fuel Consumption		
100% Load with Fan	810.7 L/hr	214.2 gal/hr
75% Load with Fan	625.8 L/hr	165.3 gal/hr
50% Load with Fan	493.6 L/hr	130.4 gal/hr
25% Load with Fan	305.0 L/hr	80.6 gal/hr

Cooling System ¹		
Engine Coolant Capacity	303.5 L	80.2 gal

Inlet Air		
Combustion Air Inlet Flow Rate	276.7 m ³ /min	9772.2 cfm
Max. Allowable Combustion Air Inlet Temp	55 ° C	131 ° F

Exhaust System		
Exhaust Stack Gas Temperature	477.7 ° C	891.9 ° F
Exhaust Gas Flow Rate	725.6 m ³ /min	25620.0 cfm
Exhaust System Backpressure (Maximum Allowable)	6.7 kPa	27.0 in. water



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Heat Rejection

Heat Rejection to Jacket Water	1379 kW	78436 Btu/min
Heat Rejection to Exhaust (Total)	3149 kW	179063 Btu/min
Heat Rejection to Aftercooler	N/A	N/A
Heat Rejection to Atmosphere from Engine	147 kW	8336 Btu/min
Heat Rejection to Atmosphere from Generator	112 kW	6369 Btu/min

Alternator²

Motor Starting Capability @ 30% Voltage Dip	7322 skVA
Current	4511 amps
Frame Size	1866
Excitation	PM
Temperature Rise	150 ° C

Emissions (Nominal)³

NOx	3113.9 mg/Nm ³	6.1 g/hp-hr
CO	325.6 mg/Nm ³	0.7 g/hp-hr
HC	40.7 mg/Nm ³	0.1 g/hp-hr
PM	13.0 mg/Nm ³	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.

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

Performance No.: DM8448-10

Feature Code: 175DR78

Generator Arrangement: 3723064

Date: 08/03/2017

Source Country: U.S.

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