

Standby: 60Hz



Image shown might not reflect actual configuration

Engine Model	Cat <sup>®</sup> C7.1 In-line 6, 4-cycle diesel
Bore x Stroke	105mm x 127mm (4.1in x 5.0 in)
Displacement	7.01 L (428 in <sup>3</sup> )
Compression Ratio	16.7:1
Aspiration	Turbocharged Air-to-Air-Aftercooled
Fuel Injection System	Electronic, Common Rail
Governor	Electronic

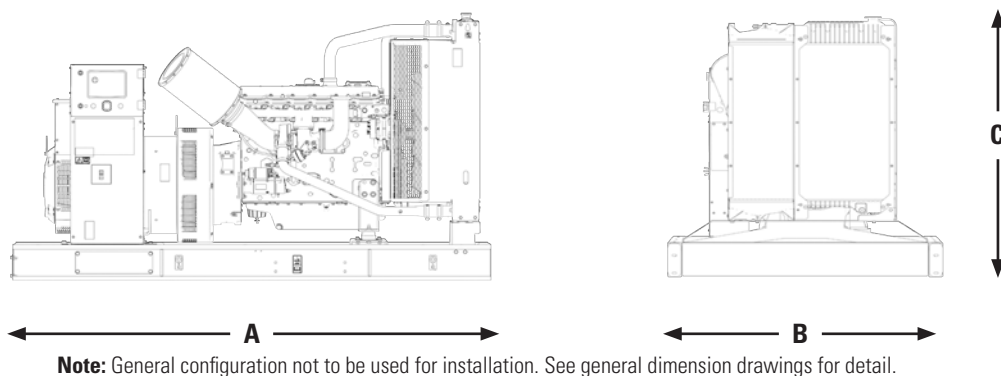
Model	Standby	Emission Strategy
D175 GC	175 ekW	EPA TIER III

## PACKAGE PERFORMANCE

Performance	Standby
Frequency	60 Hz
Genset Power Rating	219 kVA
Genset power rating with fan @ 0.8 power factor	175 ekW
Performance Number	P4378A-00
Fuel Consumption	
100% load with fan, L/hr (gal/hr)	51.2 (13.5)
75% load with fan, L/hr (gal/hr)	41.9 (11.1)
50% load with fan, L/hr (gal/hr)	28.6 (7.6)
Cooling System <sup>1</sup>	
Radiator air flow restriction (system), kPa (in. Water)	0.12 (0.48)
Engine coolant capacity, L (gal)	9.5 (2.5)
Radiator coolant capacity, L (gal)	11.5 (3.0)
Total coolant capacity, L (gal)	21 (5.5)
Inlet Air	
Combustion air inlet flow rate, m <sup>3</sup> /min (cfm)	15.4 (543.8)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	51 (124)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	509 (948)
Exhaust gas flow rate, m <sup>3</sup> /min (cfm)	34.8 (1229)
Exhaust system backpressure (maximum allowable) kPa (in. water)	15.0 (60.2)
Heat Rejection	
Heat rejection to exhaust (total) kW (Btu/min)	159.0 (9042)
Heat rejection to aftercooler, kW (Btu/min)	37.0 (2104)
Heat rejection to atmosphere from engine, kW (Btu/min)	32.0 (1820)

Emissions (Nominal) <sup>2</sup>	Standby		
NOx + HC, g/kW-hr	4.0		
CO, g/kW-hr	1.0		
PM, g/kW-hr	0.2		
Alternator <sup>3</sup>			
Voltages	480V	208V	600V
Motor starting capability @ 30% Voltage Dip			
Current Amps	263	607	211
Frame Size	M2294L4	M2736L4	M2294L4
Excitation	SE	SE	SE
Temperature Rise °C	105	105	130

## WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
2634 (103.7)	1300 (51.2)	1492 (58.7)	1697 (3741)

### 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.

**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 kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

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

### DEFINITIONS AND CONDITIONS

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

<sup>2</sup> 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.

<sup>3</sup> 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.

## LET'S DO THE WORK.™

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