Cat® D150 GC

Diesel Generator Sets



Standby: 60 Hz



Image shown may not reflect actual configuration.

Engine Model	Cat® C7.1 In-line 6, 4-cycle diesel		
Bore x Stroke	105 mm x 135 mm (4.1 in x 5.3 in)		
Displacement	7.01 L (428 in³)		
Compression Ratio	16.7:1		
Aspiration	Turbocharged Air-to-Air-Aftercooled		
Fuel Injection System	Electronic, Common Rail		
Governor	Electronic		

Model	Standby	Emission Strategy
D150 GC	150 ekW	EPA TIER III

PACKAGE PERFORMANCE

Performance	Standby
Frequency	60 Hz
Genset Power Rating	187.5 kVA
Genset power rating with fan, 3p@ 0.8 & 1p@1.0 power factor	150 ekW
Performance Number	P4390A-00
Fuel Consumption	
100% load with fan, L/hr (gal/hr)	37.8 (10.0)
75% load with fan, L/hr (gal/hr)	30.3 (8.0)
50% load with fan, L/hr (gal/hr)	21.9 (5.8)
Cooling System ¹	
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, m³/min (cfm)	15.3 (540.3)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	51 (124)
Exhaust System	<u>.</u>
Exhaust stack gas temperature, °C (°F)	441 (825)
Exhaust gas flow rate, m³/min (cfm)	31.2 (1102)
Exhaust system backpressure (maximum allowable) kPa (in. water)	15.0 (60.2)
Heat Rejection	<u>.</u>
Heat rejection to exhaust (total) kW (Btu/min)	132.0 (7496)
Heat rejection to aftercooler, kW (Btu/min)	38.0 (2138)
Heat rejection to atmosphere from engine, kW (Btu/min)	29.0 (1649)
Emissions (Nominal) ²	
NOx + HC, g/kW-hr	4.0
CO, g/kW-hr	1.0
PM, g/kW-hr	0.2

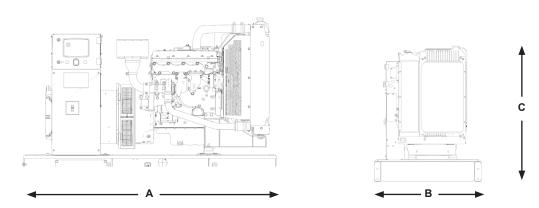
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D150 GC Diesel Generator Sets Electric Power



Alternator ³					
Voltages	480V	208V	600V		
Motor starting capability @ 30% Voltage Dip, skVA		280	625		
Current Amps	226	520	180		
Frame Size	M2256L4	M2294L4	M2275L4		
Excitation		SE	AREP		
Temperature Rise, °C	130	105	130		

WEIGHTS & DIMENSIONS



Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
2634 (103.7)	1300 (51.2)	1402 (52.2)	1562 (3443)

Note: General configuration not to be used for installation. See general dimension drawings for detail.

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

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 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.
- ³ 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