Cat® D300 GC DIESEL GENERATOR SETS



Standby: 60 Hz, 208V, 480V & 600V



Engine Model	Cat® C9 In-line 6, 4-cycle diesel
Bore x Stroke	112mm x 149mm (4.4in x 5.9in)
Displacement	8.8 L (538 in ³)
Compression Ratio	16.3:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	HEUI
Governor	Electronic ADEM™A4

Image shown might not reflect actual configuration

Standby	Performance Strategy	
300 ekW, 375kVA	EPA Certified for Stationary	
	Emergency Application	

PACKAGE PERFORMANCE

Performance	Standl	by	
Frequency	60 Hz	60 Hz	
Genset Power Rating	375 kV	A	
Gen set power rating with fan @ 0.8 power factor	300 ek\	N	
Emissions	EPA TIER 3		
Performance Number	DM8168		
Fuel Consumption			
100% load with fan	86.0 L/hr	22.7 gal/hr	
75% load with fan	58.8 L/hr	15.5 gal/hr	
50% load with fan	43.8 L/hr	11.6 gal/hr	
25% load with fan	33.1 L/hr	8.7 gal/hr	
Cooling System ¹			
Radiatorair flow restriction (system)	0.12 kPa	0.48 in. Water	
Radiatorair flow	497 m ³ /min	17551 cfm	
Engine coolant capacity	14 L	3.69 gal	
Radiator coolant capacity	25 L	6.6 gal	
Total coolant capacity	45 L	11.88 gal	
Inlet Air			
Combustion air inlet flow rate	24.6 m ³ /min	868.7 cfm	
Max. Allowable Combustion Air Inlet Temp	49 ℃	120°F	
Exhaust System			
Exhaust stack gas temperature	495℃	923°F	
Exhaust gas flowrate	69.7 m³/min	2461 cfm	
Exhaust system backpressure (maximum allowable)	10.0 kPa	40.0 in. water	
Heat Rejection			
Heat rejection to jacket water	120 kW	6838 Btu/min	
Heat rejection to exhaust (total)	320 kW	18223 Btu/min	
Heat rejection to aftercooler	92 kW	5239 Btu/min	
Heat rejection to atmosphere from engine	23 kW	1312 Btu/min	
Heat rejection from alternator	22 kW	1245 Btu/min	

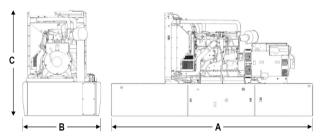
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Emissions(Nominal) ²	Standby		
NOx	2196.0 mg/Nm ³		4.00 g/hp-hr
CO	115.5 mg/Nm ³		0.2 g/hp-hr
HC	23.1 mg/Nm³		0.06 g/hp-hr
PM	12.7 mg/Nm ³		0.03 g/hp-hr
Alternator ³			
Voltages	480V	208	600V
Motor Starting Capability @ 30% Voltage Dip	705	549	1117
Current	451	1041	361
Frame Size	M2774L4	M3115L4	M2774L4
Excitation	S.E	S.E	AREP
Temperature Rise	105°C	105°C	105°C

WEIGHTS & DIMENSIONS - OPEN SET



FUEL TANK CAPACITY

Tank	Total Capacity		Useable Capacity	
Design	Litre	Gallon	Litre	Gallon
Integral	2270	600	2059	544

Base	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Generator Set Weight kg (lb)
Skid (Wide Base)	3950 (155.5)	1440 (56.7)	1706 (67.2)	2503 (5518.2)
Integral Tank Base	3950 (155.5)	1430 (56.3)	2202 (86.7)	3143 (6929.1)

DEFINITIONS AND CONDITIONS

APPLICABLE CODES AND STANDARDS:

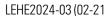
AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

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: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 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/litre (7.001 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Caterpillar representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.



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.