Cat® D250 GC DIESEL GENERATOR SETS



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



Image shown might not reflect actual configuration

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 in³)
Compression Ratio	16.3:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	HEUI
Governor	Electronic ADEM™A4

Standby	Performance Strategy		
250 ekW, 312.5kVA	EPA Certified for Stationary		
	Emergency Application		

PACKAGE PERFORMANCE

PACKAGE PERFURMANCE		,
Performance	Stand	by
Frequency	60 Hz	
Genset Power Rating	312.5 k	VA
Gen set power rating with fan @ 0.8 power factor	250 ek	W
Emissions	EPA TIER 3	
Performance Number	DM850)1
Fuel Consumption		
100% load with fan	73.3 L/hr	19.4 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	27.4 L/hr	7.3 gal/hr
Cooling System ¹		
Radiator air flow restriction (system)	0.12 kPa	0.48 in. Water
Radiatorairflow	497 m³/min	17551 cfm
Engine coolant capacity	14 L	3.69 gal
Radiatorcoolantcapacity	25 L	6.6 gal
Total coolant capacity	45 L	11.88 gal
Inlet Air		
Combustion air inlet flow rate	23.83 m³/min	841.5 cfm
Max. Allowable Combustion Air Inlet Temp	49℃	120°F
Exhaust System		
Exhaust stack gas temperature	460 ℃	860°F
Exhaust gas flow rate	63.6 m³/min	2246 cfm
Exhaust system backpressure (maximum allowable)	10.0 kPa	40.0 in. water
Heat Rejection		
Heat rejection to jacket water	104 kW	5928 Btu/min
Heat rejection to exhaust (total)	277 kW	15772 Btu/min
Heat rejection to aftercooler	82 kW	4686 Btu/min
Heat rejection to atmosphere from engine	18 kW	1004 Btu/min
Heat rejection from alternator	20 kW	1120 Btu/min

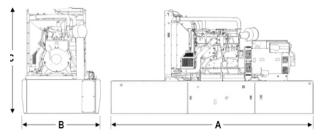
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Emissions(Nominal) ²	Standby			
NOx	1637.5 mg/	Nm³	3.14 g/hp-hr	
CO	323.2 mg/Nm ³		0.68 g/hp-hr	
HC	71.2 mg/Nm³		0.17 g/hp-hr	
PM	63.7 mg/Nm ³		0.16 g/hp-hr	
Alternator ³				
Voltages	480V	208	600V	
Motor Starting Capability @ 30% Voltage Dip	567	544	1006	
Current	375.9	867.4	300.7	
Frame Size	M2754L4	M2774L4	M2754L4	
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)	2415 (5324.2)
Integral Tank Base	3950 (155.5)	1430 (56.3)	2202 (86.7)	3055 (6735.1)

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 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/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.

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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.