Cat[®] D400 GC diesel generator sets



Standby: 60 Hz, 480V & 600V



Engine Model	Cat® C13 In-line6, 4-cyclediesel	
Bore x Stroke	130mm x 157mm (5.1in x 6.2in)	
Displacement	12.5 L (763 in ³)	
Compression Ratio	16.3:1	
Aspiration	Turbocharged Air-to-Air Aftercooled	
Fuel Injection System	MEUI	
Governor	ElectronicADEM™A4	

Image shown might not reflect actual configuration

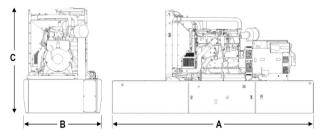
	Standby	Performance Strategy EPA Certified for Stationary Emergency Application	
PACKAGE PERFORMANCE	400 ekW, 500 kVA		
		0()	
Performance		Stand	-
Frequency		60 Hz	
Genset Power Rating		500 kV	
Gen set power rating with fan@0.8 power factor		400 ek	
Emissions		EPATIE	
Performance Number		EM169)4
Fuel Consumption			
100% load with fan	10	5.8 L/hr	27.9 gal/hr
75% load with fan	90).7 L/hr	24.0 gal/hr
50% load with fan	66	6.2 L/hr	17.5 gal/hr
25% load with fan	3	7.7 l/hr	10.0 gal/hr
Cooling System ¹			
Radiatorair flow restriction (system)	0.	.12 kPa	0.48 in. Water
Radiatorair flow	497	′ m³/min	17551 cfm
Engine coolant capacity		14.2 L	3.8 gal
Radiator coolant capacity		30 L	8 gal
Total coolant capacity		34 L	12 gal
Inlet Air			
Combustion air inlet flow rate	24.	4 m³/min	966.6 cfm
Max. Allowable Combustion Air Inlet Temp		47 ° C	116°F
Exhaust System			
Exhaust stack gas temperature	56	67.4°C	1053.4 ° F
Exhaust gas flow rate	82.	0 m³/min	2894.9 cfm
Exhaust system backpressure (maximum allowable)	1	0.0 kPa	40.0 in. water
Heat Rejection			
Heat rejection to jacket water	1	56 kW	8857 Btu/min
Heat rejection to exhaust (total)	3	98 kW	22607 Btu/min
Heat rejection to aftercooler	7	71 kW	4023 Btu/min
Heat rejection to atmosphere from engine	Ę	52 kW	2945 Btu/min
Heat rejection from alternator	2	29 kW	1661 Btu/min

Cat[®] C13 GC DIESEL GENERATOR SETS



Emissions(Nominal) ²	Standby		
NOx	2274.7 mg/Nm ³	4.58 g/hp-hr	
CO	666.9 mg/Nm ³	1.35 g/hp-hr	
HC	6.2 mg/Nm ³	0.01 g/hp-hr	
PM	39.4 mg/Nm ³	0.10 g/hp-hr	
Alternator ³			
Voltages	480V	600V	
Motor Starting Capability @ 30% Voltage Dip	871	731	
Current	601.4	481.1	
Frame Size	M3134L4	M3115L4	
Excitation	S.E	AREP	
Temperature Rise	105°C	130°C	

WEIGHTS & DIMENSIONS - OPEN SET



FUEL TANK CAPACITY

Tank	Total Capacity		Useable Capacity	
Design	Litre	Gallon	Litre	Gallon
Integral	2820	744.9	2553	674.4

Base	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Generator Set Weight kg (lb)
Skid (Wide Base)	4625 (182.8)	1630 (64.2)	2039 (80.3)	3325 (7330.4)
Integral Tank Base	4625 (182.8)	1630 (64.2)	2456 (96.7)	4107 (9054.4)

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.

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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