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

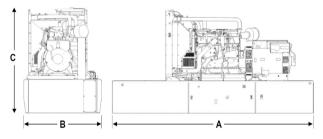
	Standby	Performance Strategy EPA Certified for Stationary Emergency Application		
PACKAGE PERFORMANCE	400 ekW, 500 kVA			
Performance		Stand	by	
Frequency		60 H:	2	
Genset Power Rating		500 kV	/Α	
Gen set power rating with fan@0.8 power factor		400 ek	W	
Emissions		EPATIE	R 3	
Performance Number		EM1694		
Fuel Consumption				
100% load with fan	10	15.8 L/hr	27.9 gal/hr	
75% load with fan	90).7 L/hr	24.0 gal/hr	
50% load with fan	60	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	
Radiator air 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	
ExhaustSystem				
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		56 kW	8857 Btu/min	
Heat rejection to exhaust (total)	3	98 kW	22607 Btu/min	
Heat rejection to aftercooler		71 kW	4023 Btu/min	
Heat rejection to atmosphere from engine	Ę	52 kW	2945 Btu/min	
Heat rejection from alternator		29 kW	1661 Btu/min	

Cat[®] C13 GC DIESEL GENERATOR SETS



Emissions(Nominal) ²	lby	
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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