

Cat® DE400 GC

Diesel Generator Sets



Standby: 50 Hz



Image shown may not reflect actual configuration.

Engine Model	Cat® C9.3B In-line 6, 4-cycle diesel
Bore x Stroke	115 mm x 149 mm
Displacement	9.3 L
Compression Ratio	16.5:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	Common Rail
Governor	Electronic ADEM A6

Model	Standby	Emission Strategy
DE400 GC	400 kVA	Non-Certified Emissions

PACKAGE PERFORMANCE

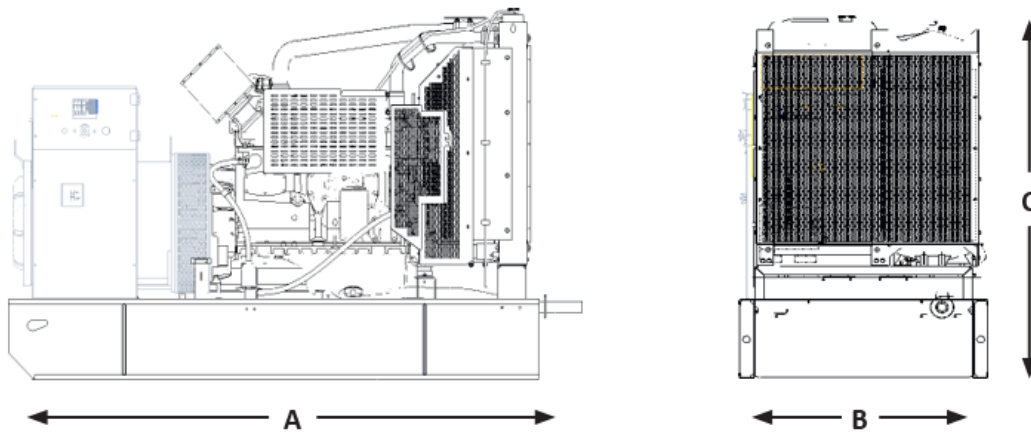
Performance	Standby
	50 Hz
Genset power rating	400 kVA
Genset power rating with fan @ 0.8 power factor	320 kWe
Emissions	Non-Certified Emissions
Performance number	EM5661
Fuel Consumption	
100% load with fan, L/hr (gal/hr)	81.3 (21.5)
75% load with fan, L/hr (gal/hr)	61.0 (16.1)
50% load with fan, L/hr (gal/hr)	42.1 (11.1)
25% load with fan, L/hr (gal/hr)	24.8 (6.6)
Cooling System¹	
Radiator air flow restriction (system), kPa (in. water)	0.125 (0.5)
Radiator air flow, m ³ /min (cfm)	421 (14867.5)
Engine coolant capacity, L (gal)	20.3 (4.5)
Radiator coolant capacity, L (gal)	16.9 (3.7)
Total coolant capacity, L (gal)	37.2 (8.2)
Inlet Air	
Combustion air inlet flow rate, m ³ /min (cfm)	20.5 (724)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	54 (129)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	512 (954)
Exhaust gas flow rate, m ³ /min (cfm)	52.8 (1864.6)
Exhaust system backpressure (maximum allowable), kPa (in. water)	15 (60)
Heat Rejection	
Heat rejection to jacket water, kW (Btu/min)	131 (7450)
Heat rejection to exhaust (total) kW (Btu/min)	284 (16151)
Heat rejection to aftercooler, kW (Btu/min)	74.7 (4248)
Heat rejection to atmosphere from engine, kW (Btu/min)	29.3 (1666)
Heat Rejection	
NOx, mg/Nm ³ (g/hp-hr)	3971.9 (7.91)
CO, mg/Nm ³ (g/hp-hr)	187.9 (0.37)
HC, mg/Nm ³ (g/hp-hr)	23.7 (0.05)
PM, mg/Nm ³ (g/hp-hr)	3.8 (0.01)

DE400 GC Diesel Generator Sets Electric Power



Alternator ²	50 Hz		
Voltages	380V	400V	415V
Motor starting capability @ 30% Voltage Dip, skVA	830	918	1108
Current, amps	608	577	556
Frame Size	A2925L41		
Excitation	S.E		
Temperature Rise, °C	163		

WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
2662 (104.8)	1120 (44.1)	1766 (69.5)	2300 (5070.6)

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, NFPA37, NFPA70, NFPA99, NFPA110, IEC60034-1, ISO3046, ISO8528, 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

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 / EU regulations which use values based on a weighted cycle.

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Enclosure Package Operating Characteristics

A. Sound Attenuated Enclosures

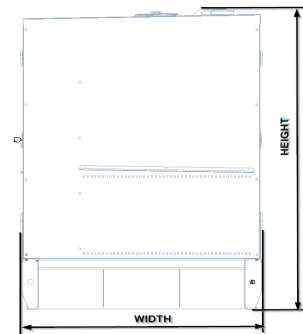
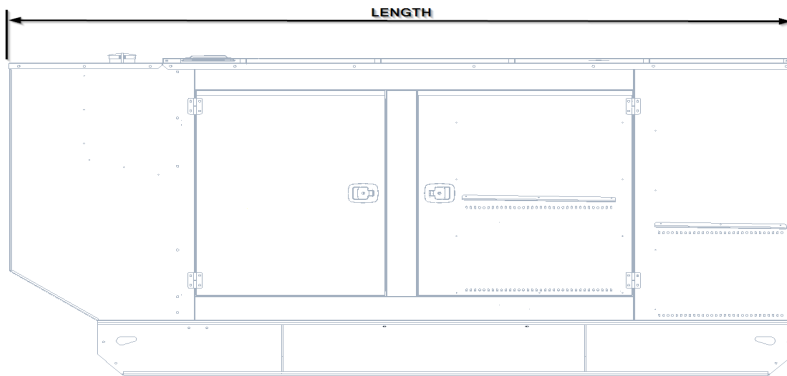
Model	Hz	kVA	SB/PP	Sound Pressure Levels dBA				Air Flow Rate		Ambient Capability @100% Load	
				1m (3.3ft)		7m (23ft)		m ³ /s	cfm	°C	°F
				75% Load	100% Load	75% Load	100% Load				
DE400 GC	50	400	SB	80.9	82.2	72.2	74.2	5.2	11018	48	118
DE400 GC (CE)	50	400	SB	80.4	82.2	71.3	72.6	3.9	8263	43	109
DE350S GC	60	437.5	SB	82.3	83.9	72.5	74.4	TBD	TBD	46	115
DE400S GC	60	500	SB	82.9	85	73.3	75.7	TBD	TBD	52	126

Note: Sound level measurements are subject to instrumentation, installation and manufacturing variability, as well as ambient site conditions

Weights & Dimensions

A. Sound Attenuated Enclosures

Model	Weight		Genset Overall Size (mm)		
	Kg	lb	Length	Width	Height
DE400 GC	2849	6281	3946	1400	2004
DE400 GC (CE Certified)	2948	6499	4085	1400	2252
DE350S GC	2849	6281	3946	1400	2004
DE400S GC	2849	6281	3946	1400	2004

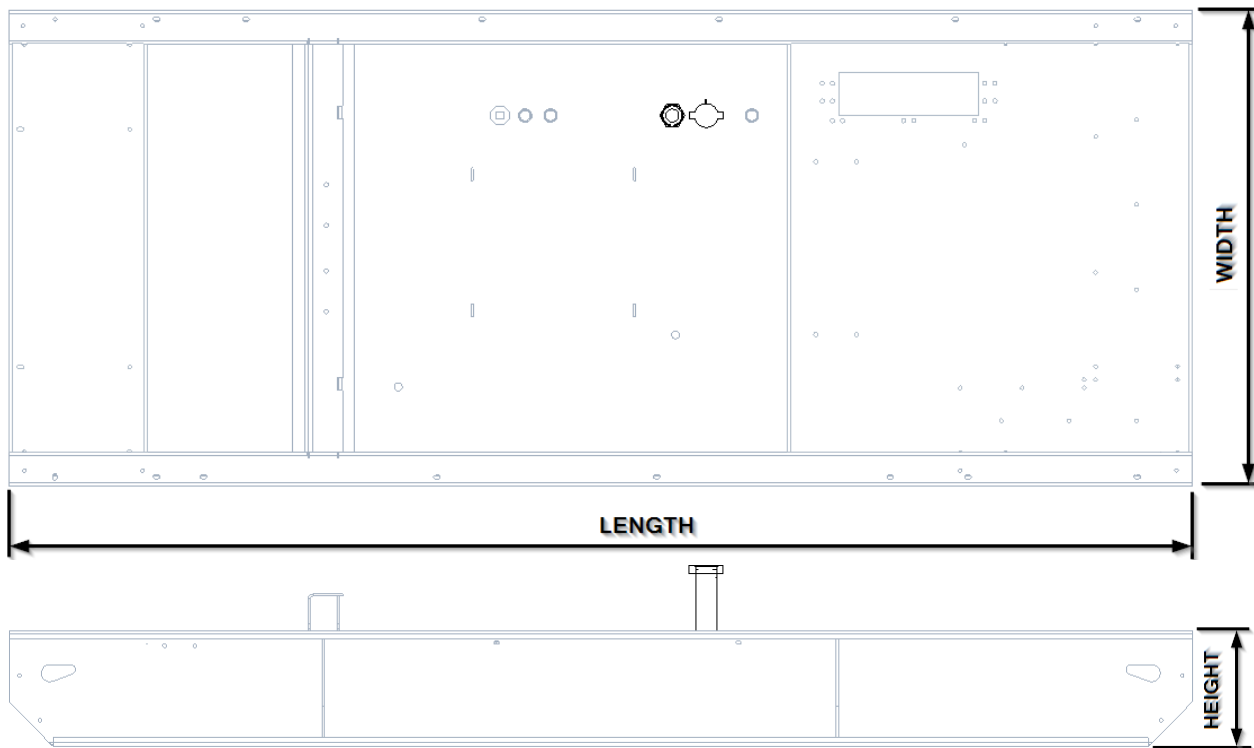


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C9 Fuel Tank Base (Integral) Options – 50 Hz & 60 Hz

Configuration	Single/ Dual Wall	Fillable Capacity		Useable Capacity		Dry Weight		Width 'W'		Length 'L'		Height 'H'		Package Height	
		L	US gal	L	US gal	kg	lb	mm	in	mm	in	mm	in	mm	in
STDBASE (Open)	Single	516	136	491	130	278	612.9	1120	44.1	2662	104.8	385	15.2	1766	69.5
STDBASE (Enclosed)	Single	529	140	503	133	377	831.1	1400	55.1	3498	137.7	340	13.4	2004	78.9
FTSC01 (Enclosed Drip tray Cotainment)	Single	529	140	503	133	443	976.6	1400	55.1	3498	137.7	407	16.0	2071	81.5
FTDW43 (Enclosed)	Dual	519	137	495	131	507	1117.7	1400	55.1	3498	137.7	450	17.7	2114	83.2

The heights listed above do not include lumber used during manufacturing and shipping.
 Dry weight is for tank only. Does not include additions or removals required by price list.
 All fuel tanks are shipped "installed."



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