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 - G3 Class* capable

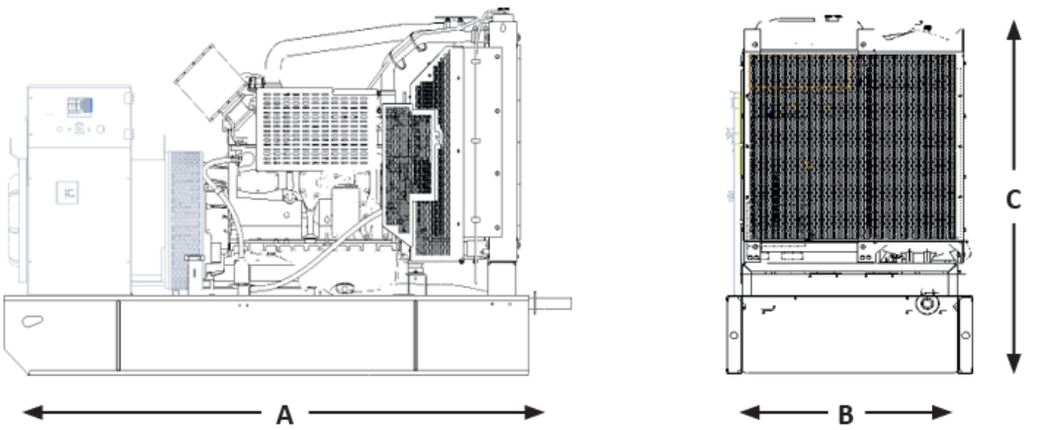
Model	Standby	Emission Strategy
DE400 GC	400 kVA	Non-Certified Emissions

PACKAGE PERFORMANCE

Performance	Standby
	50 Hz
Genset power rating	400 kVA
Genset power rating with fan @ 0.8 power factor	320 ekW
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 System[1]	
Radiator air flow restriction (system), kPa (in. water)	0.125 (0.5)
Radiator air flow, m³/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, m³/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, m³/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/Nm³ (g/hp-hr)	3971.9 (7.91)
CO, mg/Nm³ (g/hp-hr)	187.9 (0.37)
HC, mg/Nm³ (g/hp-hr)	23.7 (0.05)
PM, mg/Nm³ (g/hp-hr)	3.8 (0.01)

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, IEC60034-1, ISO3046, ISO8528, NEMA MG1-33, EAC,CE,UKCA.

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.

[3] Generator temperature rise is based on a 40° C ambient per IEC60034-1.

* Governing Class capability as per ISO8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

www.cat.com/electricpower

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