Cat® DE400S GC
Diesel Generator Sets

Standby: 60 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 - G2 Class* capable

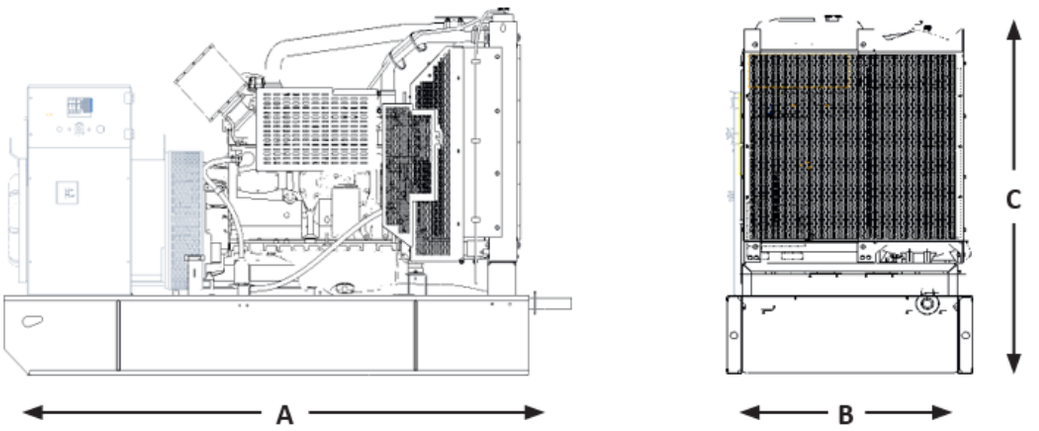
Model	Standby	Emission Strategy
DE400S GC	400 ekW (500 kVA)	Low BSFC

PACKAGE PERFORMANCE

Performance	Standby
	60 Hz
Genset power rating, kVA	500
Genset power rating with fan @ 0.8 power factor, ekW	400
Emissions	Low BSFC
Performance number	EM5662
Fuel Consumption	
100% load with fan, L/hr (gal/hr)	103.5 (27.3)
75% load with fan, L/hr (gal/hr)	77.7 (20.5)
50% load with fan, L/hr (gal/hr)	54.6 (14.4)
25% load with fan, L/hr (gal/hr)	31.9 (8.4)
Cooling System[1]	
Radiator air flow restriction (system), kPa (in. water)	0.125 (0.5)
Radiator air flow, m³/min (cfm)	561.4 (19825.7)
Total coolant capacity, L (gal)	34 (8.98)
Inlet Air	
Combustion air inlet flow rate, m³/min (kg/hr)	26.0 (920)
Max. combustion air intake restriction, kPa (in. water)	6.2 (24.9)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	512 (954)
Exhaust gas flow rate, m³/min (cfm)	52.8 (1864.6)
Exhaust system back pressure (minimum allowable), kPa (in. water)	8 (32.1)
Exhaust system backpressure (maximum allowable), kPa (in. water)	12 (48.2)
Heat Rejection	
Heat rejection to jacket water, kW (Btu/min)	156 (8857)
Heat rejection to exhaust (total), kW (Btu/min)	387 (22008)
Heat rejection to aftercooler, kW (Btu/min)	96.6 (5496)
Heat rejection to atmosphere from engine, kW (Btu/min)	27.4 (1561)
Heat Rejection	
NOx, mg/Nm³ (g/hp-hr)	3223.3 (6.50)
CO, mg/Nm³ (g/hp-hr)	534.4 (1.08)
HC, mg/Nm³ (g/hp-hr)	36.8 (0.09)
PM, mg/Nm³ (g/hp-hr)	12.0 (0.03)

Alternator[3]	60 Hz				
Voltages	480V	440V	220V	380V	240V
Motor starting capability @ 30% Voltage Dip, skVA	1356	1138	1138	852	1356
Current, Amps	601	656	1312	681	1203
Genset Rating, ekW	400	400	400	358.8	400
Frame Size	A2955L41				
Excitation	S.E				

WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
2670 (105.1)	1160 (45.6)	1770 (69.6)	2448 (5396.9)

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.