Cat® C13
Diesel Generator Sets

Standby & Prime: 50 Hz



Image shown might not reflect actual configuration.

Engine Model	Cat® C13 In-line 6, 4-cycle Diesel
Bore x Stroke	130 mm x 157 mm (5.1 in x 6.2 in)
Displacement	12.5 L (763 in^3)
Compression Ratio	16.3:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4 – G3 Class* capable

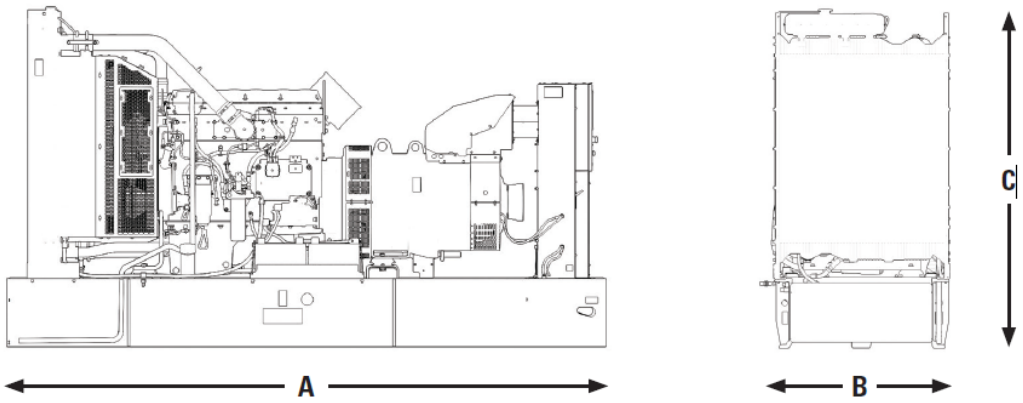
Model	Standby	Prime	Emission Strategy
DE400E0	400 kVA, 320 ekW	350 kVA, 280 ekW	Non-Certified Emissions

PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	50 Hz	
Genset Power Rating	400 kVA	350 kVA
Genset power rating with fan @ 0.8 power factor	320 ekW	280 ekW
Emissions	Non-Certified Emissions	
Performance Number	EM0425	EM0431
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	81.6 (21.5)	70.8 (18.7)
75% load with fan, L/hr (gal/hr)	60.6 (16)	53.5 (14.1)
50% load with fan, L/hr (gal/hr)	42.7 (11.2)	38.2 (10.1)
25% load with fan, L/hr (gal/hr)	25.6 (6.7)	23.2 (6.1)
Cooling System[1]		
Radiator air flow restriction (system), kPa (in. water)	0.12 (0.48)	0.12 (0.48)
Radiator air flow, m^3/min (CFM)	398 (14055)	398 (14055)
Engine coolant capacity, L (gal)	13.9 (3.7)	13.9 (3.7)
Radiator coolant capacity, L (gal)	43 (11.5)	43 (11.5)
Total coolant capacity, L (gal)	56.9 (15.2)	56.9 (15.2)
Inlet Air		
Combustion air inlet flow rate, m^3/min (CFM)	22.4 (790)	20.3 (717.5)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	44 (110)	44 (110)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	529.2 (985)	504.3 (939.7)
Exhaust gas flow rate, m^3/min (CFM)	62.8 (2216)	54.8 (1936.6)
Exhaust system backpressure (maximum allowable), kPa (in water)	10.0 (40.0)	10.0 (40.0)
Heat Rejection		
Heat rejection to jacket water, kW (BTU/min)	128 (7271)	113 (6453)
Heat rejection to exhaust (total) kW (BTU/min)	290 (16484)	249 (14146)
Heat rejection to aftercooler, kW (BTU/min)	54 (3037)	43 (2425)
Heat rejection to atmosphere from engine, kW (BTU/min)	53 (3031)	47 (2694)
Emissions (Nominal)[2]		
NO_x, mg/Nm^3 (g/hp-hr)	2731 (5.3)	2874.9 (5.6)
CO, mg/Nm^3 (g/hp-hr)	750 (1.47)	761.4 (1.5)
HC, mg/Nm^3 (g/hp-hr)	8 (0.02)	7.2 (0.02)

Alternator[3]			
Voltages	415V	400V	380V
Motor starting capability @ 30% Voltage Dip	1071 skVA	793 skVA	888 skVA
Current	556 amps	577 amps	381 amps
Frame Size	A2925L4	A2925L4	A2925L4
Excitation	SE	SE	SE
Temperature Rise	125°C	125°C	125°C

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3830 (151)	1130 (44)	2156 (85)	3253 (7172)

Note: General configuration not to be used for installation. See general dimension drawings for detail.

APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO 3046, ISO 8528, 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.

PRIME: Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 standard conditions

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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 ISO 8178-1 for measuring HC, CO, PM, NO_x. 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] Generator temperature rise is based on a 40° C ambient per IEC60034-1.

*Governing Class capability as per ISO 8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

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