

Standby & Prime: 60Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C13 In-line 6, 4-cycle Diesel
Bore x Stroke	130mm x 157mm (5.1 in x 6.2 in)
Displacement	12.5 L (763 in³)
Compression Ratio	16.3:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4 - G2 Class* capable

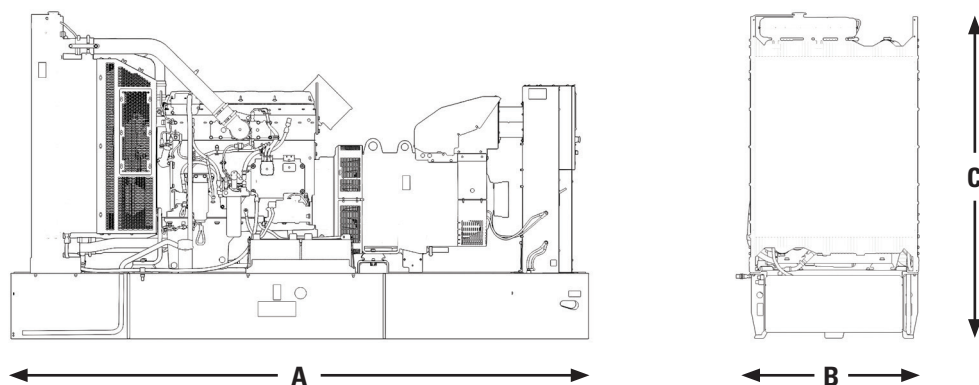
Model	Standby	Prime	Emission Strategy
DE400SE0	500 kVA, 400 ekW	438 kVA, 350 ekW	Non-Certified Emissions

PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	60 Hz	
Genset Power Rating	500 kVA	438 kVA
Genset power rating with fan @ 0.8 power factor	400 ekW	350 ekW
Emissions	Non-Certified Emissions	
Performance Number	EM0423	EM0435
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	107.5 (28.4)	93.4 (24.7)
75% load with fan, L/hr (gal/hr)	81.0 (21.4)	71.5 (18.9)
50% load with fan, L/hr (gal/hr)	56.4 (14.9)	50.7 (13.4)
25% load with fan, L/hr (gal/hr)	33.6 (8.9)	31.0 (8.2)
Cooling System¹		
Radiator air flow restriction (system), kPa (in. water)	0.12 (0.48)	0.12 (0.48)
Radiator air flow, m³/min (cfm)	538 (18999)	538 (18999)
Engine coolant capacity, L (gal)	14.3 (3.8)	14.3 (3.8)
Radiator coolant capacity, L (gal)	43 (11.5)	43 (11.5)
Total coolant capacity, L (gal)	57.3 (15.3)	57.3 (15.3)
Inlet Air		
Combustion air inlet flow rate, m³/min (cfm)	27.1 (960)	24.7 (873.5)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	48 (118)	48 (118)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	577 (1071)	547.0 (1016)
Exhaust gas flow rate, m³/min (cfm)	82.4 (2911)	71.5 (2525)
Exhaust system back pressure (maximum allowable), kPa (in. water)	10.0 (40.0)	10.0 (40.0)
Heat Rejection		
Heat rejection to jacket water, kW (Btu/min)	157 (8981)	144 (8183)
Heat rejection to exhaust (total), kW (Btu/min)	386 (21950)	332 (18877)
Heat rejection to aftercooler, kW (Btu/min)	70 (3997)	55 (3135)
Heat rejection to atmosphere from engine, kW (Btu/min)	73 (4122)	63 (3574)

Emissions (Nominal) ²	Standby			Prime	
NOx, mg/Nm³ (g/hp-hr)	2396 (4.86)			2679 (5.2)	
CO, mg/Nm³ (g/hp-hr)	631 (1.27)			665 (1.3)	
HC, mg/Nm³ (g/hp-hr)	5.7 (0.01)			4.7 (0.01)	
Alternator ³					
Voltages	220V	240V	380V	440V	480V
Motor starting capability @ 30% Voltage Dip	1126 skVA	1340 skVA	839 skVA	1126 skVA	1340 skVA
Current	1247 amps	1203 amps	689 amps	656 amps	601 amps
Frame Size	A2955L4	A2955L4	A2955L4	A2955L4	A2955L4
Excitation	SE	SE	SE	SE	SE
Temperature Rise	125°C	125°C	125°C	125°C	125°C

WEIGHTS & DIMENSIONS



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

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

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.

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 kW 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 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 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.

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