

## Standby & Prime: 60Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C13 ACERT™ 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

Model	Standby	Prime	Emission Strategy
DE400C3	440 kVA	400 kVA, 320 ekW	China Non-Road III

## PACKAGE PERFORMANCE

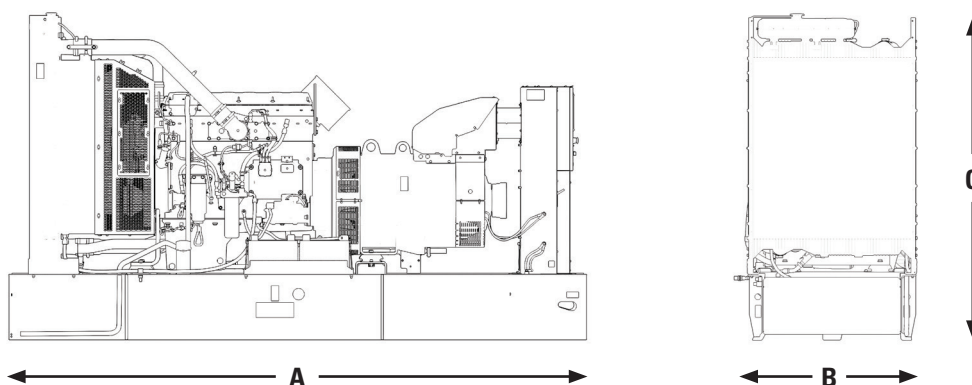
Performance	Standby	Prime
Frequency	50 Hz	
Genset Power Rating	440 kVA	400 kVA
Genset power rating with fan @ 0.8 power factor	NA	320 ekW
Emissions	China Non-Road III	
Performance Number	EM1443	EM0552
<b>Fuel Consumption</b>		
100% load with fan, L/hr (gal/hr)	96.9 (25.6)	86.8 (22.9)
75% load with fan, L/hr (gal/hr)	75.8 (20.0)	69.5 (18.3)
50% load with fan, L/hr (gal/hr)	55.5 (14.7)	50.4 (13.3)
25% load with fan, L/hr (gal/hr)	32.4 (8.5)	27.9 (7.3)
<b>Cooling System<sup>1</sup></b>		
Radiator air flow restriction (system), kPa (in. Water)	0.12 (0.48)	0.12 (0.48)
Radiator air flow, m³/min (cfm)	396 (13985)	396 (13985)
Engine coolant capacity, L (gal)	14.2 (3.7)	14.2 (3.7)
Radiator coolant capacity, L (gal)	25 (6.6)	25 (6.6)
Total coolant capacity, L (gal)	39.2 (10.3)	39.2 (10.3)
<b>Inlet Air</b>		
Combustion air inlet flow rate, m³/min (cfm)	26.4 (932.3)	25 (882.8)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	50 (122)	50 (122)
<b>Exhaust System</b>		
Exhaust stack gas temperature, °C (°F)	516 (962)	502 (935)
Exhaust gas flow rate, m³/min (cfm)	74 (2616)	69.7 (2461)
Exhaust system backpressure (maximum allowable) kPa (in. water)	10.0 (40.0)	10.0 (40.0)
<b>Heat Rejection</b>		
Heat rejection to jacket water, kW (Btu/min)	135 (7677)	122 (6938)
Heat rejection to exhaust (total) kW (Btu/min)	333 (18937)	300 (17060)
Heat rejection to aftercooler, kW (Btu/min)	80.2 (4561)	72.7 (4134)
Heat rejection to atmosphere from engine, kW (Btu/min)	75 (4265)	66.6 (3788)

Emissions (Nominal) <sup>2</sup>	Standby	Prime
NO <sub>x</sub> , mg/Nm <sup>3</sup> (g/hp-hr)	1670 (3.4)	1317 (2.75)
CO, mg/Nm <sup>3</sup> (g/hp-hr)	483 (1.01)	431 (0.93)
HC, mg/Nm <sup>3</sup> (g/hp-hr)	4.4 (0.01)	4.2 (0.12)

Alternator <sup>3</sup>	
Voltages	<b>440V</b>
Motor starting capability @ 30% Voltage Dip	1118 skVA
Current	577 amps
Frame Size	A2955L4
Excitation	SE
Temperature Rise	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)
<b>3830 (151)</b>	<b>1130 (44)</b>	<b>2156 (85)</b>	<b>3253 (7172)</b>

### APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 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.

**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

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

<sup>2</sup> 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, NO<sub>x</sub>. 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.

<sup>3</sup> UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.

## LET'S DO THE WORK.™

LEHE1706-01 (05/20)

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