

## Standby & Prime: 50Hz



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 in <sup>3</sup> )
Compression Ratio	16.3:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4 - G2 Class* capable

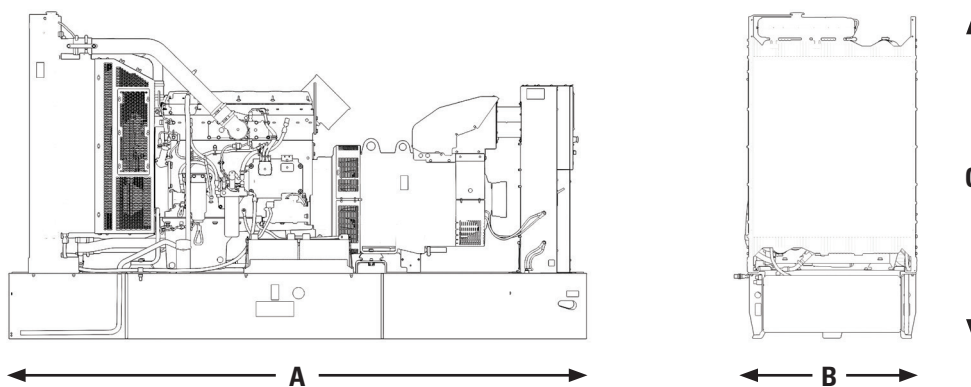
Model	Standby	Prime	Emission Strategy
DE400E0	400 kVA, 320 ekW	350 kVA, 280 ekW	Non-Certified Emissions

## PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	50 Hz	
Genset Power Rating	400 kVA	350 kVA
Genset power rating with fan @ 0.8 PF	320 ekW	280 ekW
Emissions	Non-Certified Emissions	
Performance Number	EM0425	EM0431
<b>Fuel Consumption</b>		
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)
<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, m <sup>3</sup> /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)
<b>Inlet Air</b>		
Combustion air inlet flow rate, m <sup>3</sup> /min (cfm)	22.4 (790)	20.3 (717.5)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	44 (110)	44 (110)
<b>Exhaust System</b>		
Exhaust stack gas temperature, °C (°F)	529.2 (985)	504.3 (939.7)
Exhaust gas flow rate, m <sup>3</sup> /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)
<b>Heat Rejection</b>		
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 <sup>2</sup> (Nominal-CORR 5%)	Standby		Prime
NOx, mg/Nm <sup>3</sup> (g/hp-hr)	2731 (5.3)		2874.9 (5.6)
CO, mg/Nm <sup>3</sup> (g/hp-hr)	750 (1.47)		761.4 (1.5)
HC, mg/Nm <sup>3</sup> (g/hp-hr)	8 (0.02)		7.2 (0.02)
Alternator <sup>3</sup>			
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



**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

<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, 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.

<sup>3</sup> 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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