

Standby & Prime: 50Hz, 230, 380, 400V & 415V



Image shown might not reflect actual configuration

Engine Model	Cat® C9 ACERT™ In-line 6, 4-cycle diesel
Bore x Stroke	112mm x 149mm (4.4in x 5.9in)
Displacement	8.8 L (538 in ³)
Compression Ratio	16.1:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4

Model	Standby	Prime	Emission Strategy
DE330E0	330 kVA, 264 ekW	300 kVA, 240 ekW	Non-Certified Emissions

PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	50 Hz	50 Hz
Genset Power Rating	330 kVA	300 kVA
Gen set power rating with fan @ 0.8 power factor	264 ekW	240 ekW
Fuelling strategy	Non-Certified Emissions	Non-Certified Emissions
Performance Number	EM0815	EM1033
Fuel Consumption		
100% load with fan	70.4 L/hr, 18.6 gal/hr	60.5 L/hr, 16 gal/hr
75% load with fan	52.6 L/hr, 13.9 gal/hr	48.8 L/hr, 12.9 gal/hr
50% load with fan	37 L/hr, 9.8 gal/hr	35.9 L/hr, 9.5 gal/hr
25% load with fan	22.3 L/hr, 5.9 gal/hr	20.8 L/hr, 5.5 gal/hr
Cooling System ¹		
Radiator air flow restriction (system)	0.12 kPa, 0.48 in. Water	0.12 kPa, 0.48 in. Water
Radiator air flow	438 m ³ /min, 14443 cfm	438 m ³ /min, 14443 cfm
Engine coolant capacity	13.9 L, 3.7 gal	13.9 L, 3.7 gal
Radiator coolant capacity	43 L, 11.5 gal	43 L, 11.5 gal
Total coolant capacity	56.9 L, 15.2 gal	56.9 L, 15.2 gal
Inlet Air		
Combustion air inlet flow rate	17.5 m ³ /min, 620 cfm	16.4 m ³ /min, 581 cfm
Max. Allowable Combustion Air Inlet Temp	48 °C, 118 °F	48 °C, 118 °F
Exhaust System		
Exhaust stack gas temperature	575 °C, 1067 °F	545 °C, 1012 °F
Exhaust gas flow rate	53.06 m ³ /min, 1874 cfm	45.3 m ³ /min, 1600 cfm
Exhaust system backpressure (maximum allowable)	10.0 kPa, 40.0 in. water	10.0 kPa, 40.0 in. water
Heat Rejection		
Heat rejection to jacket water	119 kW, 6765 Btu/min	110 kW, 6283 Btu/min
Heat rejection to exhaust (total)	245 kW, 13944 Btu/min	220 kW, 12517 Btu/min
Heat rejection to aftercooler	37 kW, 2121 Btu/min	45 kW, 2552 Btu/min
Heat rejection to atmosphere from engine	28 kW, 1607 Btu/min	25.6 kW, 1457 Btu/min

Emissions (Nominal) ²									
NOx	2991 mg/Nm ³ , 6.06 g/hp-hr				3132 mg/Nm ³ , 6.52 g/hp-hr				
CO	824 mg/Nm ³ , 1.68 g/hp-hr				832.1 mg/Nm ³ , 1.75 g/hp-hr				
HC	14 mg/Nm ³ , 0.05 g/hp-hr				14.9 mg/Nm ³ , 0.04 g/hp-hr				
PM	29.1 mg/Nm ³ , 0.07 g/hp-hr				24.4 mg/Nm ³ , 0.06 g/hp-hr				
Alternator ³									
Voltages	230V		380V		400V,		415V		
Motor Starting Capability @ 30% Voltage Dip	1205 skVA		1081 skVA		1205 skVA		1296 skVA		
Current	828 amps		501 amps		476 amps		459 amps		
Frame Size	A2675L4		A2675L4		A2675L4		A2675L4		
Excitation	SE		SE		SE		SE		
Temperature Rise	125 °C	257 °F	125 °C	257 °F	125 °C	257 °F	125 °C	257 °F	

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 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.

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.

Fuel Rates are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/litre (7.001 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Caterpillar representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

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