

Standby: 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 in³)
Compression Ratio	16.1:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4

PACKAGE PERFORMANCE

Model	Standby	Prime	Performance Strategy
DE300E0	300 kVA, 240 ekW	275 kVA, 220 ekW	Non-Certified Emissions

Performance	Standby	Prime
Frequency	50 Hz	50 Hz
Genset Power Rating	300 kVA	275 kVA
Gen set power rating with fan @ 0.8 power factor	240 ekW	220 ekW
Fuelling strategy	Non-Certified Emissions	Non-Certified Emissions
Performance Number	EM0877	EM1034
Fuel Consumption		
100% load with fan	62.2 L/hr 16.4 gal/hr	57.3 L/hr 15.1 gal/hr
75% load with fan	46.9 L/hr, 12.4 gal/hr	43.4 L/hr, 11.5 gal/hr
50% load with fan	33.3 L/hr, 8.8 gal/hr	31.0 L/hr, 8.2 gal/hr
25% load with fan	20.2 L/hr, 5.3 gal/hr	19.2 L/hr, 5.1 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 m³/min, 14443 cfm	438 m³/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	16.5 m³/min, 584 cfm	15.7 m³/min, 557 cfm
Max. Allowable Combustion Air Inlet Temp	48 °C, 118 °F	48 °C, 118 °F
Exhaust System		
Exhaust stack gas temperature	551 °C, 1024 °F	545°C, 1012 °F
Exhaust gas flow rate	48.2 m³/min, 1704 cfm	45.3 m³/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	115 kW, 6565 Btu/min	110 kW, 6255 Btu/min
Heat rejection to exhaust (total)	217 kW, 12320 Btu/min	200 kW, 11341 Btu/min
Heat rejection to aftercooler	46 kW, 2592 Btu/min	40 kW, 2280 Btu/min
Heat rejection to atmosphere from engine	27 kW, 1559 Btu/min	25.3 kW, 1441 Btu/min

Emissions (Nominal) ²									
NOx	3322 mg/Nm ³ , 6.8 g/hp-hr					3638 mg/Nm ³ , 7.3 g/hp-hr			
CO	892 mg/Nm ³ , 1.8 g/hp-hr					687.5 mg/Nm ³ , 1.42 g/hp-hr			
HC	11.9 mg/Nm ³ , 0.03 g/hp-hr					13.1 mg/Nm ³ , 0.03 g/hp-hr			
PM	28.4 mg/Nm ³ , 0.07 g/hp-hr					30.4 mg/Nm ³ , 0.08 g/hp-hr			
Alternator ³									
Voltages	230V		380V		400V,		415V		
Motor Starting Capability @ 30% Voltage Dip	827 skVA		746 skVA		827 skVA		886 skVA		
Current	753 amps		456 amps		433 amps		417 amps		
Frame Size	A2658L4		A2658L4		A2658L4		A2658L4		
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: Fuel consumption reported in accordance with ISO3046-1.

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