

C9 ACERT
200 ekW/ 250 kVA/ 50 Hz/ 1500 rpm/ 400 V/ 0.8 Power Factor

Rating Type: STANDBY

Fuel Strategy: LOW FUEL CONSUMPTION



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200 ekW/ 250 kVA
50 Hz/ 1500 rpm/ 400 V

Metric English

Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	200 ekW	
Genset Power Rating	250 kVA	
Aftercooler (Separate Circuit)	N/A	N/A

Fuel Consumption		
100% Load with Fan	51.9 L/hr	13.7 gal/hr
75% Load with Fan	40.0 L/hr	10.6 gal/hr
50% Load with Fan	28.9 L/hr	7.6 gal/hr
25% Load with Fan	18.2 L/hr	4.8 gal/hr

Cooling System ¹		
Engine Coolant Capacity	13.9 L	3.7 gal

Inlet Air		
Combustion Air Inlet Flow Rate	15.1 m ³ /min	533.3 cfm
Max. Allowable Combustion Air Inlet Temp	45 ° C	112 ° F

Exhaust System		
Exhaust Stack Gas Temperature	469.7 ° C	877.4 ° F
Exhaust Gas Flow Rate	38.8 m ³ /min	1370.5 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water

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Heat Rejection		
Heat Rejection to Jacket Water	103 kW	5834 Btu/min
Heat Rejection to Exhaust (Total)	160 kW	9125 Btu/min
Heat Rejection to Aftercooler	32 kW	1835 Btu/min
Heat Rejection to Atmosphere from Engine	27 kW	1556 Btu/min
Heat Rejection to Atmosphere from Generator	16 kW	921 Btu/min

Alternator²	
Motor Starting Capability @ 30% Voltage Dip	465 skVA
Current	361 amps
Frame Size	LC5014H
Excitation	SE
Temperature Rise	130 ° C

Emissions (Nominal)³		
NOx	4241.0 mg/Nm ³	9.0 g/hp-hr
CO	702.5 mg/Nm ³	1.5 g/hp-hr
HC	14.8 mg/Nm ³	0.0 g/hp-hr
PM	30.1 mg/Nm ³	0.1 g/hp-hr

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. 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.
3. 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.

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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.

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/liter (7.001 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Cat representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

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Performance No.: EM0879-00

Feature Code: C09DE1B

Generator Arrangement: 4652292

Date: 10/22/2015

Source Country: U.K.

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C9 ACERT™ Sound Attenuated Level 1 and Level 2 Enclosures

50 Hz: 275-330 kVA
60 Hz: 250-300 ekW

Features

Robust/Highly Corrosion-Resistant Construction

- Factory-installed on integral fuel tank base
- Environmentally-friendly, polyester powder baked paint
- All-round overhanging base to protect enclosure
- High grade engineering thermoplastic corner posts for protection
- Compression door latches giving solid door seal
- Zinc-plated or black coated stainless steel fasteners
- Internally mounted critical exhaust silencing system

Excellent Access

- Large cable entry area for installation ease
- Accommodates rear-mounted breaker and control panel
- Vertically-hinged double doors on both sides
- Removable ducts providing maintenance access with enclosure in place
- Lube oil and coolant drains piped to base frame side rail, on exterior
- Radiator fill cover

Security and Safety

- Lockable access doors which give full access to control panel and breaker
- Cooling fan and battery charging alternator fully guarded
- Fuel fill, oil fill, and battery can only be reached via lockable access
- Externally-mounted emergency stop button
- Designed for spreader-bar lifting to ensure safety
- Control panel viewing window
- Stub-up area is rodent proof

Options

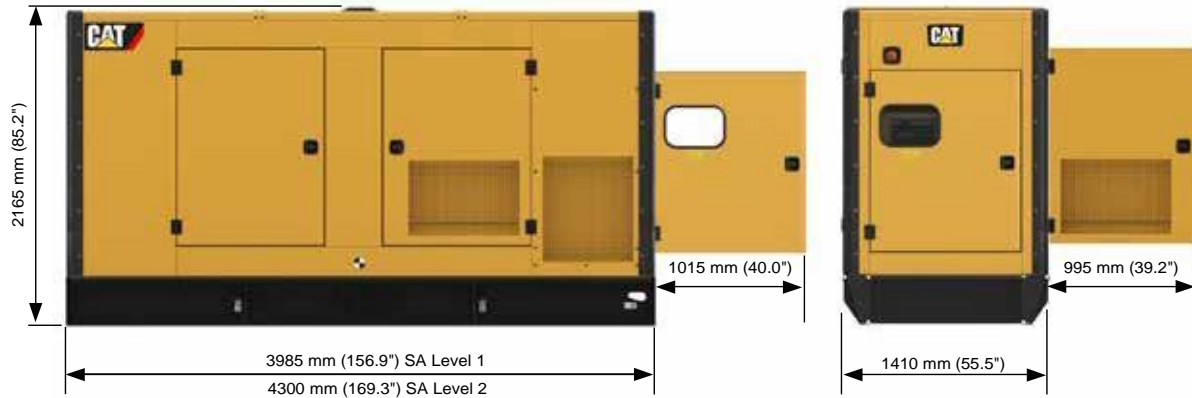
- Caterpillar yellow or white paint
- Integral dual wall fuel tank base for total fluid containment (fuel, oil, and coolant) DEFRA compliant
- Integral lifting frame

Enclosure Package Operating Characteristics

Model	kVA	ekW	SB/PP	Sound Pressure Levels dBA at 100% Load		Air Flow Rate		Ambient Capability*	
				1 m (3.3 ft)	7 m (23 ft)	m ³ /s	cfm	°C	°F
50 Hz SA Level 2									
DE300E3	300	240	SB	80.6	68.9	4.6	9747	47	117
	275	220	PP	79.9	68.3	4.6	9747	50	122
DE300E0	300	240	SB	79.3	68.7	4.6	9747	51	124
	275	220	PP	78.6	68.1	4.6	9747	54	129
DE330E0	330	264	SB	80.3	69.5	4.6	9747	48	118
	300	240	PP	79.3	68.7	4.6	9747	51	124
60 Hz SA Level 2									
DE275SE0	343.8	275	SB	83.4	70.8	5.4	11477	53	127
	312.5	250	PP	82.6	70.2	5.4	11477	56	133
DE300SE3	375	300	SB	84.9	72.0	5.4	11477	43	109
	300	270	PP	83.8	70.9	5.4	11477	48	118
DE300SE0	375	300	SB	84.2	71.6	5.4	11477	50	122
	337.5	270	PP	83.2	70.7	5.4	11477	54	129
50 Hz SA Level 1									
DE300E3	300	240	SB	82.9	70.3	4.5	9464	47	117
	275	220	PP	82.4	70.1	4.5	9464	50	122
DE300E0	300	240	SB	83.1	70.8	4.5	9464	53	127
	275	220	PP	82.7	70.5	4.5	9464	55	131
DE330E0	330	264	SB	83.6	71.0	4.5	9464	50	122
	300	240	PP	83.1	70.8	4.5	9464	53	127
60 Hz SA Level 1									
DE275SE0	343.8	275	SB	86.1	72.8	5.4	11336	48	118
	312.5	250	PP	85.7	72.4	5.4	11336	51	124
DE300SE3	375	300	SB	86.5	73.1	5.4	11336	44	111
	300	270	PP	86.0	72.7	5.4	11336	49	120
DE300SE0	375	300	SB	86.5	73.1	5.4	11336	44	111
	337.5	270	PP	86.0	72.7	5.4	11336	49	120

*Ambient capability measured with Cat Extended Life Coolant at sea level.

Weights and Dimensions



Model	Weight*				Fuel Capacity				Estimated Run Time at 100% Prime
	SA Level 1 Package		SA Level 2 Package		Fillable		Usable		
	kg	lb	kg	lb	L	U.S. gal	L	U.S. gal	hours
DE300E3	3276	7222	3404	7505	665	176	610	161	10.1
DE300E0									10.5
DE330E0	3396	7487	3524	7769	665	176	610	161	9.8
DE275SE0	3276	7222	3404	7505	665	176	610	161	9.2
DE300SE3									8.2
DE300SE0									9.2

*Includes enclosed generator set filled with oil and coolant (no fuel). Exact weight is dependent on options.

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