Cat® C4.4 DIESEL GENERATOR SETS

Standby & Prime: 50 Hz & 60 Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C4.4 Inline 4-stroke Diesel
Bore x Stroke	105.0mm x 127.0mm (4.1in x 5.0 in)
Displacement	4.4 L (268.5 in³)
Compression Ratio	18.3:1
Aspiration	Turbocharged Air To Air Charge Cooled
Fuel Injection System	Inline
Governor	Electronic

Model	Standby		Prime		Emission Strategy
	50 Hz	60 Hz	50 Hz	60 Hz	
DE110E2	110.0 kVA (88.0 kW)	125.0 kVA (100.0 kW)	100.0 kVA (80.0 kW)	113.0 kVA (90.4 kW)	EU II

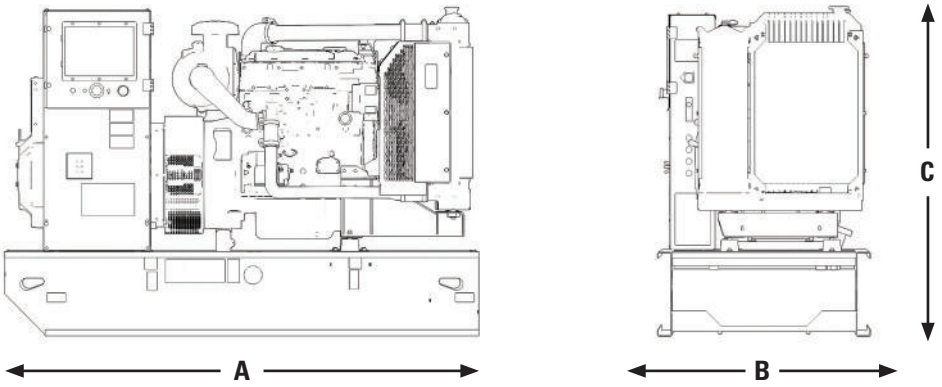
PACKAGE PERFORMANCE

Performance	Standby		Prime	
	50 Hz	60 Hz	50 Hz	60 Hz
Frequency	50 Hz	60 Hz	50 Hz	60 Hz
Genset Power Rating	110.0 kVA	125.0 kVA	100.0 kVA	113.0 kVA
Genset power rating with fan @ 0.8 power factor	88.0 kW	100.0 kW	80.0 kW	90.4 kW
Emissions	EU II			
Performance Number	P2634B	P2634A	P2634B	P2634A
Fuel Consumption				
Fuel Tank Capacity, litres (US gal)	250 (66.0)			
100% load with fan, L/hr (gal/hr)	23.8 (6.3)	28.5 (7.5)	21.7 (5.7)	25.7 (6.8)
75% load with fan, L/hr (gal/hr)	18.0 (4.8)	21.5 (5.7)	16.5 (4.4)	19.6 (5.2)
50% load with fan, L/hr (gal/hr)	12.6 (3.3)	15.2 (4.0)	11.7 (3.1)	14.1 (3.7)
Cooling System[1]				
Radiator air flow, m³/min (cfm)	187.8 (6632)	244.2 (8624)	187.8 (6632)	244.2 (8624)
Total coolant capacity, L (gal)	17.5 (4.6)			
Inlet Air				
Max. Combustion Air Intake Restriction, kPa (in H2O)	8.0 (32.1)			
Combustion air inlet flow rate, m³/min (cfm)	6.3 (221)	7.8 (275)	6.0 (212)	7.8 (274)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	50 (122)			
Exhaust System				
Exhaust stack gas temperature, °C (°F)	543 (1009)	574 (1065)	514 (957)	517 (963)
Exhaust gas flow rate, m³/min (cfm)	16.3 (576)	20.4 (720)	15.2 (537)	18.4 (650)
Exhaust system backpressure (maximum allowable), kPa (in. water)	18.0 (5.3)	15.0 (4.4)	18.0 (5.3)	15.0 (4.4)
Heat Rejection				
Heat rejection to jacket water, kW (Btu/min)	50.7 (2883)	64.0 (3640)	46.1 (2622)	57.7 (3281)
Heat rejection to alternator, kW (Btu/min)	7.8 (444)	8.3 (472)	7.8 (444)	8.3 (472)
Heat rejection to atmosphere from engine, kW (Btu/min)	15.3 (870)	17.7 (1007)	13.7 (779)	15.7 (893)

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Alternator[3]	50 Hz				60 Hz			
Voltages	415V	400V	380V	220V	480V	440V	380V	208V
Motor starting capability @ 30% Voltage Dip, skVA	150	140	128	167	165	141	108	128
Current, amps	153	159	167	273	150	164	172	347
Temperature Rise, °C	125/40							
Frame Size	M2236L4							
Excitation	S.E							

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)
2089 (82.2)	**1120 (44.1)**	**1375 (54.1)**	**1092 (2408)**

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 ekW 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

[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.

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