

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	105.0 mm x 127.0 mm (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

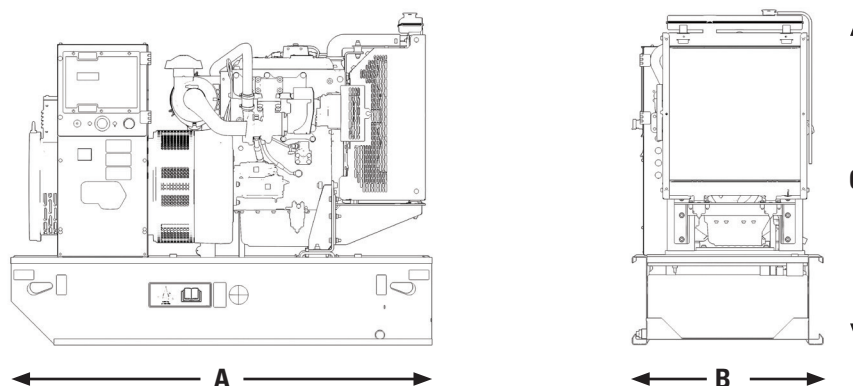
Model	Standby		Prime		Emission Strategy
DE110E2	50 Hz	60 Hz	50 Hz	60 Hz	EU II
	110.0 kVA	125.0 kVA	100.0 kVA kW	113.0 kVA	
	(88.0 kW)	(100.0 kW)	(80.0 kW)	(90.4 kW)	

PACKAGE PERFORMANCE

Technical Data	Standby		Prime	
Frequency	50 Hz	60 Hz	50 Hz	60 H
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)	23.9 (6.3)	29.0 (7.7)	21.7 (5.7)	26.1 (6.9)
75% load with fan, L/hr (gal/hr)	18.0 (4.8)	21.6 (5.7)	16.5 (4.4)	19.7 (5.2)
50% load with fan, L/hr (gal/hr)	12.6 (3.3)	15.3 (4.0)	11.6 (3.1)	14.1 (3.7)
Cooling System¹				
Radiator air flow restriction (system), kPa (in. Water)	8.0 (32.1)			
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				
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)	8.7 (495)	9.9 (563)	8.7 (495)	9.9 (563)
Heat rejection to atmosphere from engine, kW (BTU/min)	16.2 (921)	19.3 (1098)	13.9 (790)	17.2 (978)

Alternator ²	50 Hz				60 Hz			
Voltages	415V	400V	380V	220V	480V	380V	240V	440V
Motor starting capability @ 30% Voltage Dip, skVA	189	168	168	210	168	126	126	147
Current, amps	153	159	167	289	150	184	301	164
Temperature Rise, °C	163/27	163/27	163/27	163/27	125/40	163/27	163/27	125/40
Frame Size	R2253L4							
Excitation	S.E							

WEIGHTS & DIMENSIONS



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)	1198 (2641)

Note: General configuration not to be used for installation. See general dimension drawings for detail.

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.

DEFINITIONS AND CONDITIONS

¹ For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

²UL 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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