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 (4.1 in 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 kVA (88 ekW)	125 kVA (100 ekW)	100 kVA (80 ekW)	113 kVA (90 ekW)	

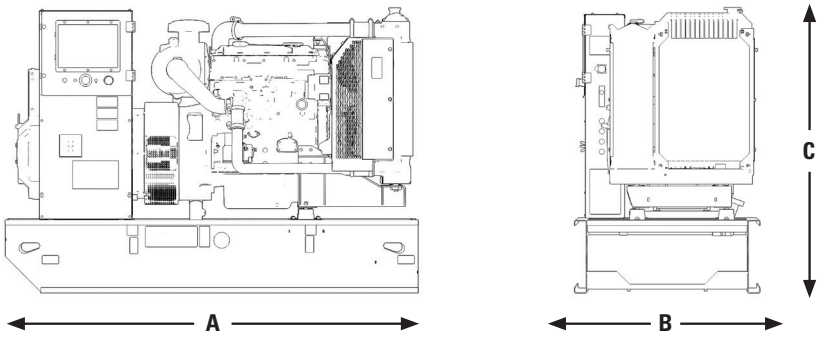
PACKAGE PERFORMANCE

Performance	Standby		Prime	
Frequency	50 Hz	60 Hz	50 Hz	60 Hz
Genset Power Rating	110 kVA	125 kVA	100 kVA	113 kVA
Genset power rating with fan @ 0.8 power factor	88 ekW	100 ekW	80 ekW	90 ekW
Emissions	EU II			
Performance Number	P2634B	P4514A	P2634D	P4514C
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 water)	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 (72.3)	15.0 (60.2)	18.0 (72.3)	15.0 (60.2)
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)

Alternator[2]		50 Hz									
Duty Cycle		Standby					Prime				
Phase		3-Phase					3-Phase				
Voltages, V		200/115	220/127	380/220	400/230	415/240	200/115	220/127	380/220	400/230	415/240
Current, Amps		318	289	167	159	153	289	262	152	144	139
Frame: LC3114F Excitation: SE	Temperature Rise, @ 40°C	163	163	163	163	163	125	125	125	125	125
	Motor Starting Capability 30% Voltage Dip, skVA	240	282	220	240	256	240	282	220	240	256
Frame: M2236L4 Excitation: SE	Temperature Rise @ 40°C	163		163	163	163	163		163	163	163
	Motor Starting Capability @ 30% Voltage Dip skVA	38		166	182	194	38		166	182	194

Alternator[2]		60 Hz															
Duty Cycle		Standby								Prime							
Phase		3-Phase								3-Phase							
Voltages, V		208/120	220/127	220/110	240/139	240/120	380/220	440/254	480/277	208/120	220/127	220/110	240/139	240/120	380/220	440/254	480/277
Current, Amps		347	328	328	300.7	300.7	189.9	164	150.4	313.7	296.5	296.5	271.8	271.8	171.7	148.3	135.9
Frame: LC3114D Excitation: SE	Temperature Rise, @ 40°C	130	130	150	105	130	150	130	105	105	125	125	80	105	125	105	80
	Motor Starting Capability @ 30% Voltage Dip, skVA	219	242	188	280	219	187	242	280	219	188	188	280	219	187	242	280
Frame: M2236L4 Excitation: SE	Temperature Rise, @ 40°C						163								125		
	Motor Starting Capability @ 30% Voltage Dip, skVA						108								108		

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)	1129 (2490)

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

APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO 3046, ISO 8528, NEMA MG1-33, EAC, CE, UKCA.

Note: Codes may not be available in all model configurations. Please consult your Cat dealer 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 ISO 3046 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] Generator temperature rise is based on a 40°C ambient per IEC60034-1.

©2025 Caterpillar
All rights reserved.
Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.
CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.