

Standby & Prime: 60Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C15 In-line 6, 4-cycle Diesel
Bore x Stroke	137 mm x 171 mm (5.4 in x 6.8 in)
Displacement	15.2 L (928 in ³)
Compression Ratio	16.1:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4

Model	Standby	Prime	Emission Strategy
C15	350 ekW, 438 kVA	320 ekW, 400 kVA	TIER III Non-Road

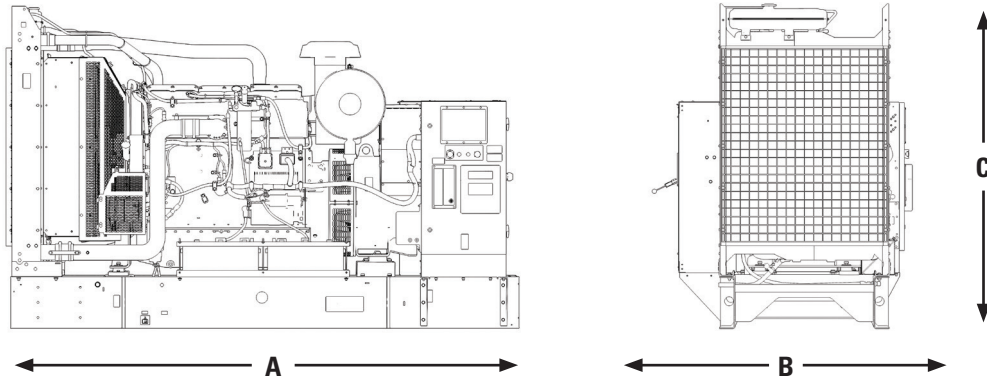
PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	60 Hz	
Genset Power Rating	438 kVA	400 kVA
Genset power rating with fan @ 0.8 power factor	350 ekW	320 ekW
Emissions	TIER III Non-Road	
Performance Number	DM8149	DM8148
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	104.7 (27.6)	98.9 (26.1)
75% load with fan, L/hr (gal/hr)	85.1 (22.4)	80.0 (21.1)
50% load with fan, L/hr (gal/hr)	64.3 (16.9)	59.7 (15.7)
25% load with fan, L/hr (gal/hr)	37.0 (9.7)	34.8 (9.1)
Cooling System¹		
Radiator air flow restriction (system), kPa (in. water)	0.12 (0.48)	0.12 (0.48)
Radiator air flow, m ³ /min (CFM)	720 (25426)	720 (25426)
Engine coolant capacity, L (gal)	20.8 (5.5)	20.8 (5.5)
Radiator coolant capacity, L (gal)	54 (14)	54 (14)
Total coolant capacity, L (gal)	75 (20)	75 (20)
Inlet Air		
Combustion air inlet flow rate, m ³ /min (CFM)	35.2 (1244.2)	34.8 (1230.5)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	48 (119)	46 (115)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	491.8 (917.2)	483.4 (902.1)
Exhaust gas flow rate, m ³ /min (CFM)	93.8 (3310.8)	91.3 (3222.4)
Exhaust system backpressure (maximum allowable), kPa (in. water)	10.0 (40.0)	10.0 (40.0)
Heat Rejection		
Heat rejection to jacket water, kW (BTU/min)	153 (8676)	147 (8352)
Heat rejection to exhaust (total), kW (BTU/min)	422 (23982)	406 (23089)
Heat rejection to aftercooler, kW (BTU/min)	89 (5058)	87 (4965)
Heat rejection to atmosphere from engine, kW (BTU/min)	73 (4144)	66 (3753)

Emissions (Nominal) ²	Standby	Prime
NOx, mg/Nm ³ (g/hp-hr)	1475.6 (3.3)	1270.3 (2.9)
CO, mg/Nm ³ (g/hp-hr)	242.9 (0.6)	204.8 (0.5)
HC, mg/Nm ³ (g/hp-hr)	16.0 (0.04)	20.9 (0.05)
PM, mg/Nm ³ (g/hp-hr)	18.1 (0.05)	13.5 (0.04)

Alternator ³											
Duty Cycle		Standby					Prime				
Phase		3-Phase					3-Phase				
Voltages, V		208	220	240	480	600	208	220	240	480	600
Current, Amps		1214	1148	1053	526	421	1110	1050	962	481	385
Frame: LC6124D Excitation: AREP	Temperature Rise @ 40°C	105	105	105	105	105	80	80	80	80	80
	Motor Starting Capability @ 30% Voltage Dip, skVA	1008	1118	1309	1309	1408	1008	1118	1309	1309	1408
Frame: LC6124B Excitation: AREP	Temperature Rise @ 40°C	105	130	130	130	130	80	105	105	105	105
	Motor Starting Capability @ 30% Voltage Dip, skVA	812	901	1055	1055	1057	812	901	1055	1055	1057
Frame: LC6114D Excitation: SE	Temperature Rise @ 40°C	105	105	105	105		80	80	80	80	
	Motor Starting Capability @ 30% Voltage Dip, skVA	839	930	1089	1089		839	930	1089	1089	
Frame: LC6114B Excitation: SE	Temperature Rise @ 40°C	130	130	130	130		105	105	105	105	
	Motor Starting Capability @ 30% Voltage Dip, skVA	677	751	880	880		677	751	880	880	

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3476 (137)	1628 (64)	2128 (84)	3939 (8683)

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

APPLICABLE CODES AND STANDARDS:

CSA C22.2 No 100-04, UL142, UL489, UL869, cUL/UL2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO 3046, ISO 8528, NEMA MG 1-33.

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.

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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