

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 - G2 Class* capable

Model	Standby	Prime	Emission Strategy
C15	500 ekW, 625 kVA	455 ekW, 569 kVA	TIER II Non-Road

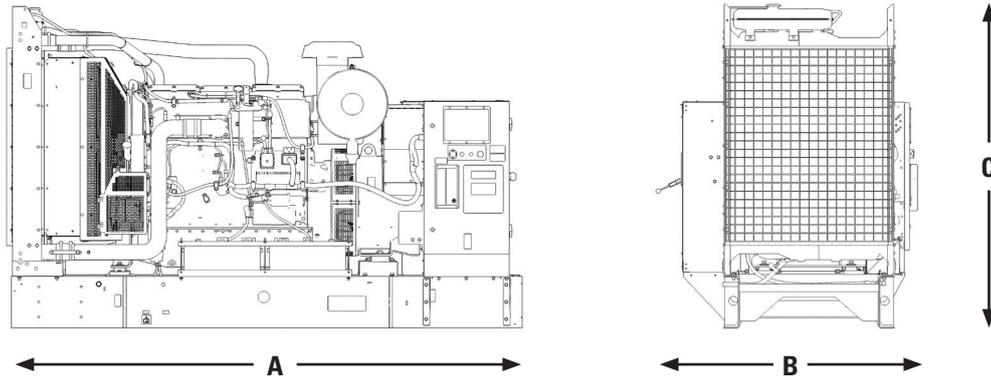
PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	60 Hz	
Genset Power Rating	625 kVA	569 kVA
Genset power rating with fan @ 0.8 pf	500 ekW	455 ekW
Emissions	TIER II Non-Road	
Performance number	DM8155	DM8154
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	133.9 (35.3)	126.3 (33.3)
75% load with fan, L/hr (gal/hr)	108.0 (28.5)	97.2 (25.6)
50% load with fan, L/hr (gal/hr)	69.7 (18.4)	63.9 (16.8)
25% load with fan, L/hr (gal/hr)	40.9 (10.8)	38.2 (10.0)
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)	38.2 (1349)	38.2 (1349)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	49 (120)	49 (120)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	531 (988)	524 (975)
Exhaust gas flow rate, m ³ /min (CFM)	109.6 (3870)	101.2 (3573.4)
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)	182 (10375)	172 (9781)
Heat rejection to exhaust (total), kW (BTU/min)	493 (28036)	483 (27467)
Heat rejection to aftercooler, kW (BTU/min)	121 (6881)	120 (6824)
Heat rejection to atmosphere from engine, kW (BTU/min)	91 (5175)	87 (4947)

Emissions (Nominal) ²	Standby	Prime
NO _x , mg/Nm ³ (g/hp-hr)	2129.1 (4.6)	1554.5 (3.6)
CO, mg/Nm ³ (g/hp-hr)	301.5 (0.6)	362.9 (0.8)
HC, mg/Nm ³ (g/hp-hr)	8.8 (0.03)	12.2 (0.04)
PM, mg/Nm ³ (g/hp-hr)	9.5 (0.03)	11.9 (0.03)

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	1735	1640	1504	752	601	1579	1493	1368	684	547
Frame: LC6124F Excitation: AREP	Temperature Rise @ 40°C	150	130	130	130	130	125	105	105	105
	Motor Starting Capability @ 30% Voltage Dip, skVA	1325	1466	1712	1712	1714	1325	1466	1712	1712
Frame: LC6124G Excitation: AREP	Temperature Rise @ 40°C	130	130	105	105	105	105	105	105	105
	Motor Starting Capability @ 30% Voltage Dip, skVA	1335	1479	1729	1729	1731	1335	1479	1729	1729
Frame: LC7024H Excitation: AREP	Temperature Rise @ 40°C					130				105
	Motor Starting Capability @ 30% Voltage Dip, skVA					2023				2023
Frame: LC7024J Excitation: AREP	Temperature Rise @ 40°C	105	105	105	105		80	80	80	80
	Motor Starting Capability @ 30% Voltage Dip, skVA	1524	1694	1993	1993		1524	1694	1993	1993
Frame: LC7024F Excitation: AREP	Temperature Rise @ 40°C	130	105	105			105	105	80	
	Motor Starting Capability @ 30% Voltage Dip, skVA	1248	1387	1633			1248	1387	1633	
Frame: LC6114F Excitation: SE	Temperature Rise @ 40°C	150	130	130	130		125	105	105	105
	Motor Starting Capability @ 30% Voltage Dip, skVA	1104	1222	1428	1428		1104	1222	1428	1428
Frame: LC6114G Excitation: SE	Temperature Rise @ 40°C	130	130	105	105		105	105	105	105
	Motor Starting Capability @ 30% Voltage Dip, skVA	1116	1236	1445	1445		1116	1236	1445	1445

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3476 (137)	1628 (64)	2128 (84)	4365 (9623)

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.

* Governing Class capability as per ISO8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

LET'S DO THE WORK.™

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