Cat® D100 GC
Diesel Generator Sets

Standby : 60 Hz

Image shown might not reflect actual configuration.

Engine Model	Cat® C4.4 In-line 4, 4-cycle diesel
Bore x Stroke	105 mm x 127 mm (4.1in x 5.0 in)
Displacement	4.4 L (269 in³)
Compression Ratio	16.7:1
Aspiration	Turbocharged
Fuel Injection System	Common Rail

Model	Standby	Emission Strategy
D100 GC	100 ekW	EPA TIER III

PACKAGE PERFORMANCE

Performance	Standby	
	3-Phase	1-Phase
Frequency	60 Hz	60 Hz
Genset Power Rating	125 kVA	100 kVA
Genset power rating with fan, 3p@ 0.8 & 1p@1.0 power factor	100 ekW	100 ekW
Performance Number	P4514A	P4514A
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	27.9 (7.4)	28.2 (7.4)
75% load with fan, L/hr (gal/hr)	22.5 (5.9)	22.8 (6.0)
50% load with fan, L/hr (gal/hr)	16.7 (4.4)	16.9 (4.5)
Cooling System[1]		
Radiator air flow restriction (system), kPa (in. Water)	0.12 (0.48)	
Engine coolant capacity, L (gal)	7.0 (1.8)	
Radiator coolant capacity, L (gal)	10.0 (2.6)	
Total coolant capacity, L (gal)	17.0 (4.4)	
Inlet Air		
Combustion air inlet flow rate, m³/min (cfm)	8.82 (311)	8.82 (311)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	45 (113)	
Exhaust System		
Exhaust stack gas temperature, °C (°F)	659 (1218)	659 (1218)
Exhaust gas flow rate, m³/min (cfm)	20.2 (712)	20.2 (712)
Exhaust system backpressure (maximum allowable) kPa (in. water)	15.0 (60.2)	15.0 (60.2)
Heat Rejection		
Heat rejection to exhaust (total) kW (Btu/min)	91.3 (5192)	91.3 (5192)
Heat rejection to atmosphere from engine, kW (Btu/min)	15.6 (887)	15.6 (887)
Emissions (Nominal)[2]		
NOx + HC, g/kW-hr	3.6	3.6
CO, g/kW-hr	0.9	0.9
PM, g/kW-hr	0.12	0.12

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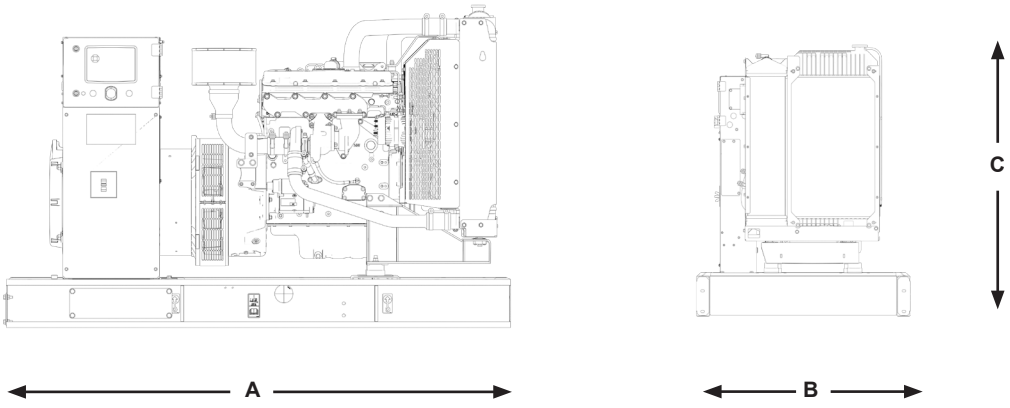
Electric Power

Alternator[3]				
Voltages	480V	208V	600V	240V
Motor starting capability @ 30% Voltage Dip, skVA	165	182	328	229
Current Amps	150	347	120	417
Frame Size	M2236L4	M2254L4	M2236L4	M2238L4
Excitation	SE	SE	AREP	SE
Temperature Rise, °C	130	105	130	130

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
2097 (82.6)	**1100 (43.3)**	**1343 (52.9)**	**1008 (2222)**

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 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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LEHE2663-03 (06/22)