Cat® C3.3
Diesel Generator Sets

Standby & Prime: 50 Hz & 60 Hz



Image shown might not reflect actual configuration.

Engine Model	Cat® C3.3 Inline 4-stroke Diesel
Bore x Stroke	105.0 mm x 127.0 mm (4.1 in x 5.0 in)
Displacement	3.3 L (201.4 in³)
Compression Ratio	17.25:1
Aspiration	Turbocharged
Fuel Injection System	Inline
Governor	Mechanical

Model	Standby		Prime		Emission Strategy
DE65E0	50 Hz	60 Hz	50 Hz	60 Hz	Low BSFC
	65.0 kVA (52.0 kW)	75.0 kVA (60.0 kW)	60.0 kVA (48.0 kW)	68.8 kVA (55.0 kW)	

PACKAGE PERFORMANCE

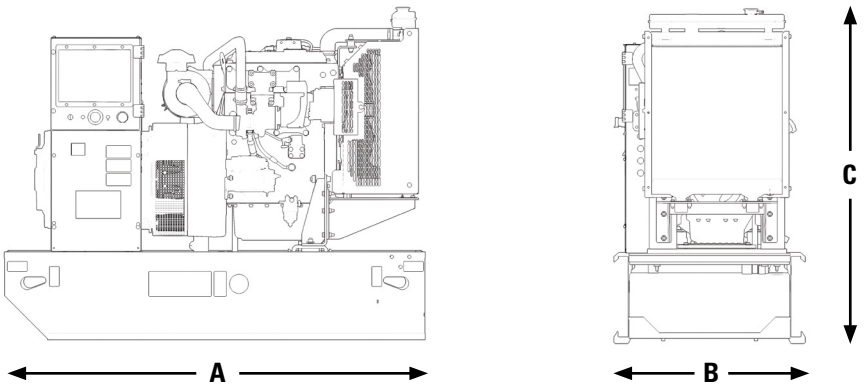
Performance	Standby		Prime	
Frequency	50 Hz	60 Hz	50 Hz	60 Hz
Genset Power Rating	65.0 kVA	75.0 kVA	60.0 kVA	68.8 kVA
Genset power rating with fan @ 0.8 power factor	52.0 kW	60.0 kW	48.0 kW	55.0 kW
Emissions	Low BSFC			
Performance Number	P2506B	P2506A	P2506B	P2506A
Fuel Consumption				
Fuel Tank Capacity, litres (US gal)	219 (57.9)			
100% load with fan, L/hr (gal/hr)	14.9 (3.9)	17.0 (4.5)	13.6 (3.6)	15.4 (4.1)
75% load with fan, L/hr (gal/hr)	11.0 (2.9)	12.8 (3.4)	10.2 (2.7)	11.7 (3.1)
50% load with fan, L/hr (gal/hr)	7.6 (2.0)	9.0 (2.4)	7.1 (1.9)	8.4 (2.2)
Cooling System[1]				
Radiator air flow, m³/min (CFM)	110.4 (3899)	145.8 (5149)	110.4 (3899)	145.8 (5149)
Total coolant capacity, L (gal)	10.2 (2.7)			
Inlet Air				
Max. Combustion Air Intake Restriction, kPa (in water)	8.0 (32.1)			
Combustion air inlet flow rate, m³/min (CFM)	3.9 (138)	4.9 (173)	3.8 (134)	4.7 (166)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	50 (122)			
Exhaust System				
Exhaust stack gas temperature, °C (°F)	571 (1060)	564 (1047)	557 (1035)	534 (993)
Exhaust gas flow rate, m³/min (CFM)	10.4 (367)	12.5 (441)	10.1 (357)	11.8 (417)
Exhaust system backpressure (maximum allowable), kPa (in. water)	10.0 (41)	15.0 (60.2)	10.0 (41)	15.0 (60.2)
Heat Rejection				
Heat rejection to jacket water, kW (BTU/min)	37.7 (2144)	42.8 (2434)	35.2 (2002)	41.0 (2332)
Heat rejection to alternator, kW (BTU/min)	5.7 (324)	6.0 (341)	5.7 (324)	6.0 (341)
Heat rejection to atmosphere from engine, kW (BTU/min)	16.7 (950)	17.0 (967)	15.0 (853)	16.1 (916)

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Alternator[2]		50 Hz											
Duty Cycle		Standby						Prime					
Phase		3-Phase						3-Phase					
Voltages, V		200/115	220/110	230/115	380/220	400/230	415/240	200/115	220/110	230/115	380/220	400/230	415/240
Current, Amps		188	171	163	99	94	90	173	158	151	91	87	84
Frame: LC1514P Excitation: SE	Temperature Rise, @ 40°C	163	163	163	163	163	163	125	125	125	125	125	125
	Motor Starting Capability 30% Voltage Dip, skVA	138	129	137	128	138	145	138	129	137	128	138	145

Alternator[2]		60 Hz							
Duty Cycle		Standby				Prime			
Phase		3-Phase				3-Phase			
Voltages, V		220/127	240/139	440/254	480/277	220/127	240/139	440/254	480/277
Current, Amps		196.8	180.4	98.4	90.2	180.6	165.5	90.3	82.8
Frame: LC1514F Excitation: SE	Temperature Rise, @ 40°C	163	130	163	130	125	125	125	125
	Motor Starting Capability @ 30% Voltage Dip, skVA	139	157	139	157	139	157	139	157

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
1925 (75.8)	1120 (44.1)	1361 (53.6)	874 (1926)

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.

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