Cat® C1C2
Diesel Generator Sets

Standby & Prime: 50 Hz & 60 Hz

Image shown might not reflect actual configuration

Engine Model	Cat® C2.2 In-line 4, 4-cycle diesel
Bore x Stroke	84 mm x 100 mm (3.3 in x 3.9 in)
Displacement	2.2 L (135.2 in³)
Compression Ratio	23.3:1
Aspiration	Naturally Aspirated
Fuel Injection System	Inline
Governor	Mechanical

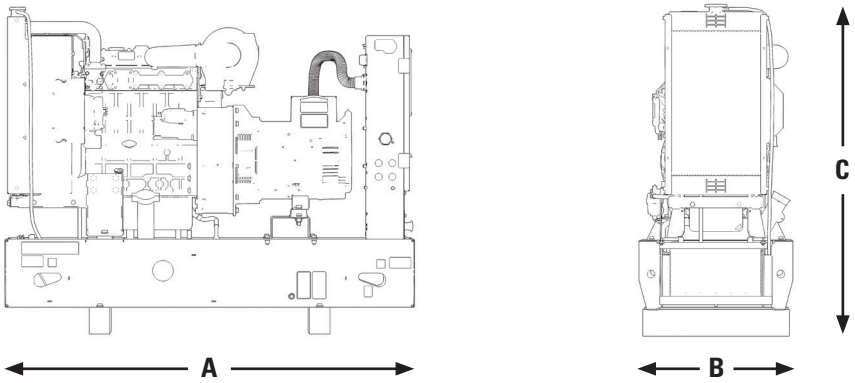
Model	Standby		Prime		Emission Strategy
DE14E3S	50 Hz	60 Hz	50 Hz	60 Hz	EU IIIA
	14.0 kVA	17.0 kVA	13.0 kVA	15.5 kVA	

PACKAGE PERFORMANCE

Performance	Standby		Prime	
Frequency	50 Hz	60 Hz	50 Hz	60 Hz
Genset Power Rating	14.0 kVA	17.0 kVA	13.0 kVA	15.5 kVA
Genset power rating with fan @ 1.0 power factor	14.0 ekW	17.0 ekW	13.0 ekW	15.5 ekW
Emissions	EU IIIA			
Fuel Consumption				
110% load with fan, L/hr (gal/hr)	NA		4.6 (1.2)	5.6 (1.5)
100% load with fan, L/hr (gal/hr)	4.6 (1.2)	5.6 (1.5)	4.3 (1.1)	5.2 (1.4)
75% load with fan, L/hr (gal/hr)	3.5 (0.9)	4.4 (1.2)	3.3 (0.9)	4.1 (1.1)
50% load with fan, L/hr (gal/hr)	2.7 (0.7)	3.3 (0.9)	2.6 (0.7)	3.1 (0.8)
Cooling System[1]				
Radiator air flow restriction (system), kPa (in water)	0.5 (2)	0.5 (2)	0.5 (2)	0.5 (2)
Radiator air flow, m³/min (CFM)	33 (1165)	41.4 (1462)	33 (1165)	41.4 (1462)
Total coolant capacity, L (gal)	6.5 (1.7)	6.5 (1.7)	6.5 (1.7)	6.5 (1.7)
Inlet Air				
Combustion air inlet flow rate, m³/min (CFM)	1.5 (51)	1.7 (61)	1.5 (51)	1.7 (61)
Max. Allowable Combustion Air Inlet Temp, °C	50	50	50	50
Exhaust System				
Exhaust stack gas temperature, °C (°F)	413 (776)	459 (858)	364 (687)	396 (745)
Exhaust gas flow rate, m³/min (CFM)	3.2 (114)	4.3 (151)	3.0 (105)	3.9 (138)
Exhaust system backpressure (maximum allowable), kPa (in water)	10.2 (4)1	10.2 (41)	10.2 (41)	10.2 (41)
Heat Rejection				
Heat rejection to jacket water, kW (BTU/min)	15.2 (864)	17.2 (978)	13.7 (779)	15.5 (881)
Heat rejection to atmosphere from engine & alternator, kW (BTU/min)	5.3 (301)	6.1 (347)	4.5 (256)	5.2 (296)

Alternator[2]		50 Hz						60 Hz	
Duty Cycle		Standby			Prime			Standby	Prime
Phase		1-Phase			1-Phase			1-Phase	1-Phase
Voltages, V		220/110	230/115	240/120	220/110	230/115	240/120	240/120	240/120
Current, Amps		64	61	58	59	57	54	70.8	64.6
Frame: LCB1114L Excitation: SE	Temperature Rise @ 40°C	163	163	163	125	125	125	163	125
	Motor Starting Capability @ 30% Voltage Dip, skVA	31	32	34	31	32	34	30	30
Frame: M1434L4 Excitation: SE	Temperature Rise @ 40°C	163	163	163	125	125	125		
	Motor Starting Capability @ 30% Voltage Dip, skVA	25	27	28	25	27	28		

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
1500 (59.1)	620 (24.4)	1115 (43.9)	439 (968)

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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