Cat® C1C2
Diesel Generator Sets

Standby & Prime: 50 Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C1.5 In-line 3, 4-cycle diesel
Bore x Stroke	84 mm x 90 mm (3.3 in x 3.5 in)
Displacement	1.5 L (91.3 in³)
Compression Ratio	22.5:1
Aspiration	Naturally Aspirated
Fuel Injection System	Inline
Governor	Mechanical

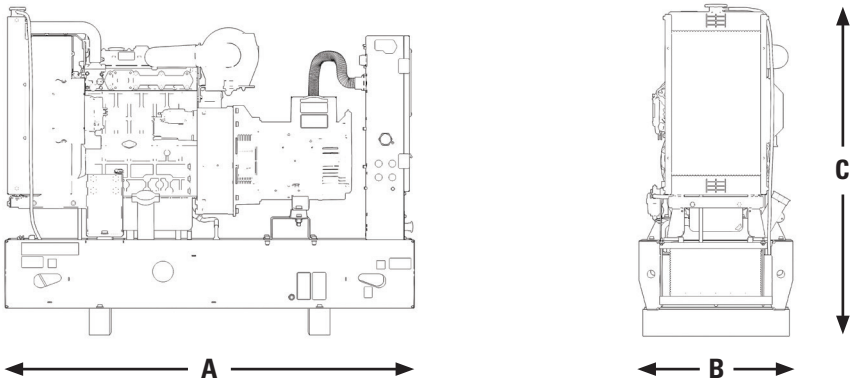
Model	Standby	Prime	Emission Strategy
DE16E0	50 Hz	50 Hz	Low BSFC
	16.0 kVA	14.5 kVA	

PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	50 Hz	50 Hz
Genset Power Rating	16.0 kVA	14.5 kVA
Genset power rating with fan @ 0.8 power factor	12.8 ekW	11.6 ekW
Emissions	Low BSFC	
Fuel Consumption		
110% load with fan, L/hr (gal/hr)	NA	4.7 (1.3)
100% load with fan, L/hr (gal/hr)	4.7 (1.2)	4.1 (1.1)
75% load with fan, L/hr (gal/hr)	3.3 (0.9)	3.0 (0.8)
50% load with fan, L/hr (gal/hr)	2.4 (0.6)	2.3 (0.6)
Cooling System[1]		
Radiator air flow restriction (system), kPa (in water)	0.5 (2)	0.5 (2)
Radiator air flow, m³/min (CFM)	28.8 (1017)	28.8 (1017)
Total coolant capacity, L (gal)	6.0 (1.6)	6.0 (1.6)
Inlet Air		
Combustion air inlet flow rate, m³/min (CFM)	0 (0)	1.0 (35)
Max. Allowable Combustion Air Inlet Temp, °C	50	50
Exhaust System		
Exhaust stack gas temperature, °C (°F)	580 (1076)	470 (878)
Exhaust gas flow rate, m³/min (CFM)	0 (0)	2.2 (78)
Exhaust system backpressure (maximum allowable), kPa (in water)	10.2 (41)	10.2 (41)
Heat Rejection		
Heat rejection to jacket water, kW (Btu/min)	14.6 (830)	13.3 (756)
Heat rejection to atmosphere from engine & alternator, kW (BTU/min)	5.8 (330)	5.1 (290)

Alternator[2]							
Duty Cycle		Standby			Prime		
Phase		3-Phase			3-Phase		
Voltages, V		380/220	400/230	415/240	380/220	400/230	415/240
Current Amps		24	23	22	22	21	20
Frame: M1434L4 Excitation: SE	Temperature Rise, @ 40°C	163	163	163	125	125	125
	Motor Starting Capability @ 30% Voltage Dip, skVA	24	26	28	24	26	28

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
1500 (59.1)	860 (33.9)	895 (35.2)	333 (734.1)

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 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] Generator temperature rise is based on a 40°C ambient per IEC60034-1.

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