Cat® C1C2
Diesel Generator Sets

Standby & Prime: 50 Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C1.5 ACERT™ In-line, 4-Stroke diesel
Bore x Stroke	84 mm x 90 mm (3.3 in x 3.5 in)
Displacement	1.496 L (91.29 in³)
Compression Ratio	22.5:1
Aspiration	Naturally Aspirated
Fuel Injection System	Inline
Governor	Mechanical

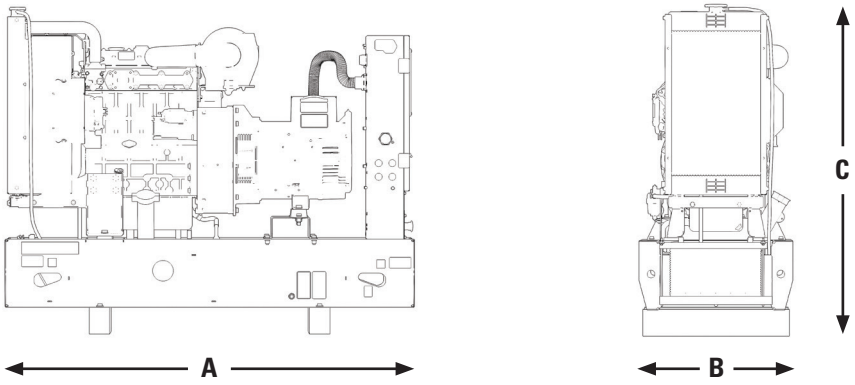
Model	Standby	Prime	Emission Strategy
DE12E0S	50 Hz	50 Hz	Low BSFC
	12 kVA	11 kVA	

PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	50 Hz	50 Hz
Genset Power Rating	12 kVA	11 kVA
Genset power rating with fan @ 1.0 power factor	7 ekW	6 ekW
Emissions	Low BSFC	
Fuel Consumption		
100% load with fan, L/hr	3.83	4.49
75% load with fan, L/hr	2.77	3.11
50% load with fan, L/hr	2.00	2.24
Cooling System[1]		
Radiator air flow restriction (system), kPa	30.4	30.4
Radiator air flow, m³/min	41.4	41.4
Total coolant capacity, L	6.0	6.0
Inlet Air		
Combustion air inlet flow rate, m³/min	1.1	1.0
Max. Allowable Combustion Air Inlet Temp, °C	53	53
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 Coolant, kW	14.4	13.1
Heat rejection to aftercooler, kW	3.9	3.6
Heat rejection to exhaust (total), kW	11.5	10.5

Alternator[2]							
Duty Cycle		Standby			Prime		
Phase		1-Phase			1-Phase		
Voltages, V		220/110	230/115	240/120	220/110	230/115	240/120
Current, Amps – LC Frame		50	48	46	46	44	42
Current, Amps – M Frame		55	52	50	50	48	46
Frame: LCB1114F Excitation: SE	Temperature Rise @ 40 °C	130	130	130	105	105	105
	Motor Starting Capability @ 30% Voltage Dip, skVA	21	22	24	21	22	24
Frame: M1417L4 Excitation: SE	Temperature Rise @ 40°C	130	130	130	125	125	125
	Motor Starting Capability @ 30% Voltage Dip, skVA	21	22	24	21	22	24

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 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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