

Cat® DE220 GC

Diesel Generator Sets



Standby: 50 Hz



Image shown might not reflect actual configuration.

Engine Model	Cat® C7.1 Inline 4-stroke Diesel
Bore x Stroke	105.0mm x 135.0mm (4.1in x 5.3 in)
Displacement	7.0 L (427.8 in³)
Compression Ratio	16.0:1
Aspiration	Turbocharged Air to Air Charge Cooled
Fuel Injection System	Inline
Governor	Mechanical

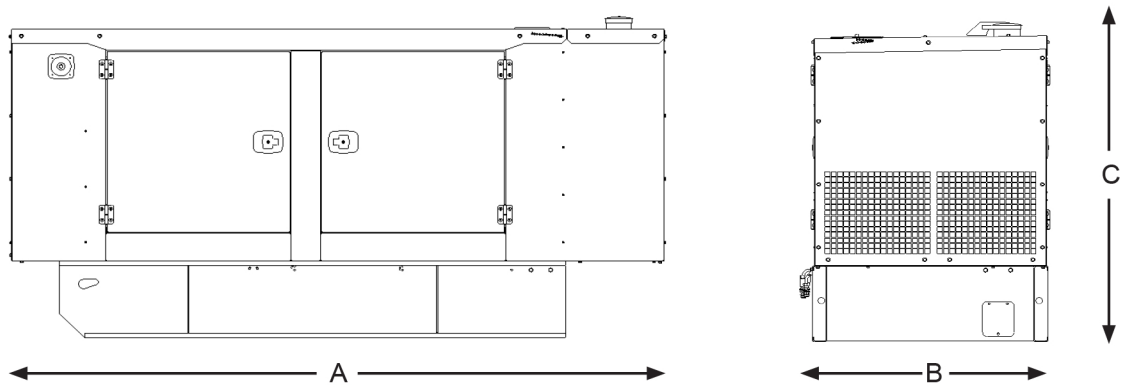
Model	Standby	Emission Strategy
	50 Hz kVA (ekW)	
DE220 GC	217.0 (174.2)	Low BSFC

PACKAGE PERFORMANCE

Performance	Standby
	50 Hz
Genset power rating	217.8 kVA
Genset power rating with fan @ 0.8 power factor	174.2 kW
Emissions	Low BSFC
Performance number	P3692A
Fuel Consumption	
Fuel tank capacity, litres (US gal)	325 (85.9)
100% load with fan, L/hr (gal/hr)	49.2 (13.0)
75% load with fan, L/hr (gal/hr)	37.8 (10.0)
50% load with fan, L/hr (gal/hr)	25.6 (6.8)
Cooling System¹	
Radiator air flow, m³/min (cfm)	307.2 (10849)
Total coolant capacity, L (gal)	27.0 (7.1)
Inlet Air	
Max. combustion air intake restriction, kPa (in H ₂ O)	5.0 (20.1)
Combustion air inlet flow rate, m³/min (cfm)	13.2 (466)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	550 (1022)
Exhaust gas flow rate, m³/min (cfm)	36.8 (1300)
Exhaust system backpressure (maximum allowable), kPa (in. water)	6.0 (1.8)
Heat Rejection	
Heat rejection to jacket water, kW (Btu/min)	81.0 (4606)
Heat rejection to alternator, kW (Btu/min)	15.2 (864)
Heat rejection to atmosphere from engine, kW (Btu/min)	13.2 (751)
Heat rejection to exhaust (total) kW (Btu/min)	158 (8985)

Alternator ²	50 Hz		
Voltages	380 V	415V	400V
Motor starting capability @ 30% Voltage Dip, skVA	545	649	601
Current, amps	329.1	303	313.9
Temperature Rise, °C	163/27		
Frame Size	A2637L4		
Excitation	S.E		

WEIGHTS & DIMENSIONS



Note: General configuration not to be used for installation. See general dimension drawings for detail.

Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3325 (130.9)	1134 (44.6)	1666 (65.6)	1933 (4261.5)

*Weight includes standard generator, Enclosure and Integral Tank base

APPLICABLE CODES AND STANDARDS:

AS1359, NFPA37, NFPA70, NFPA99, NFPA110, IEC 60034-1, ISO 3046, ISO 8528, 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.

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 27°C ambient per NEMA MG1-32.



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