

Cat® DE605 GC

Diesel Generator Sets



Standby: 50 Hz

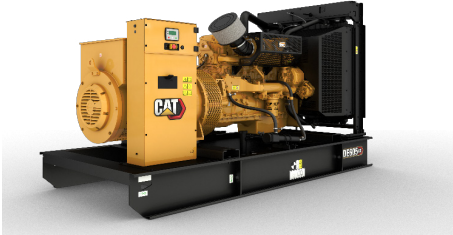


Image shown may not reflect actual configuration

Engine Model	Cat® C15 In-line 6, 4-cycle Diesel
Bore x Stroke	137 mm x 171 mm (5.4 in x 6.8 in)
Displacement	15.2 L (928 in³)
Compression Ratio	16:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	EUI
Governor	Electronic ADEM™ A4 - G2 Class* capable

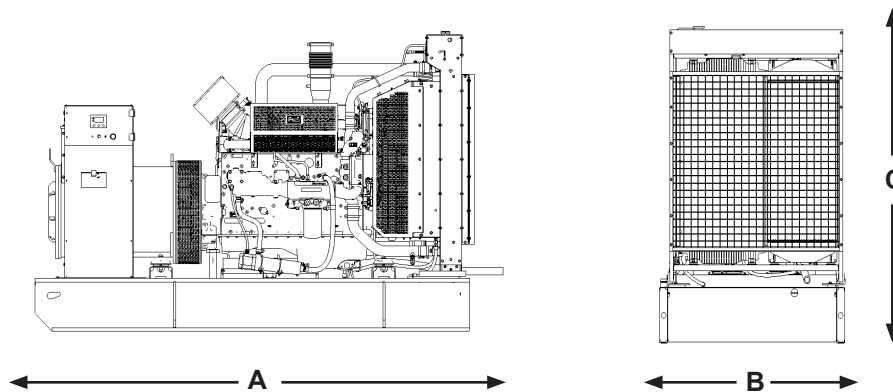
Model	Standby 50 Hz kVA (ekW)	Emission Strategy
DE605 GC	605.0 (484.0)	Low BSFC

PACKAGE PERFORMANCE

Performance	Standby
	50 Hz
Genset power rating	605.0
Genset power rating with fan @ 0.8 power factor	484.0
Emissions	Low BSFC
Performance number	EM5622
Fuel Consumption	
Fuel tank capacity, litres (US gal)	910 (240.4)
100% load with fan, L/hr (gal/hr)	120.6 (31.9)
75% load with fan, L/hr (gal/hr)	91.1 (24.1)
50% load with fan, L/hr (gal/hr)	63.1 (16.7)
Cooling System¹	
Radiator air flow, m³/min (cfm)	477 (16845)
Radiator air flow restriction (system), kPa (in. water)	0.125 (0.5)
Total coolant capacity, L (gal)	48 (12.7)
Inlet Air	
Max. combustion air intake restriction, kPa (in. water)	6.22 (25)
Combustion air inlet flow rate, m³/min (kg/hr)	33.68 (2376)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	528.7 (984)
Exhaust gas flow rate, m³/min (cfm)	95.6 (3376)
Exhaust system backpressure (minimum allowable), kPa (in. water)	9 (36)
Exhaust system backpressure (maximum allowable), kPa (in. water)	16.67 (67)
Heat Rejection	
Heat rejection to jacket water, kW (Btu/min)	171 (9725)
Heat rejection to exhaust (total), kW (Btu/min)	453 (25762)
Heat rejection to atmosphere from engine, kW (Btu/min)	32.6 (1854)
Heat rejection to aftercooler, kW (Btu/min)	107 (6085)

Alternator ²	50 Hz		
	Voltages	380V	415V
Motor starting capability @ 30% Voltage Dip, skVA	1282	1722	1418
Current, Amps	841.68	873.24	919.20
Temperature Rise, °C	163		
Frame Size	A3325L41		
Excitation	S.E		

WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3328 (131.0)	1540 (60.6)	2187 (86.1)	3683 (8119.6)

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

APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO3046, ISO8528, NEMA MG1-33, EAC,CE,UKCA.

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 40° C ambient per IEC60034-1.

* Governing Class capability as per ISO8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

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