

Cat® DE715 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	16.1:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	EUI
Governor	Electronic ADEM™ A4 - G3 Class* capable

Model	Standby 50 Hz kVA (ekW)	Emission Strategy
DE715 GC	715.0 (572.0)	Low BSFC

PACKAGE PERFORMANCE

Performance	Standby 50 Hz
Genset power rating	715.0
Genset power rating with fan @ 0.8 power factor	572.0
Emissions	Low BSFC
Performance number	EM5626
Fuel Consumption	
Fuel tank capacity, Litres (US gal)	910 (240.4)
100% load with fan, L/hr (gal/hr)	142.2 (37.6)
75% load with fan, L/hr (gal/hr)	106.7 (28.2)
50% load with fan, L/hr (gal/hr)	73.4 (19.4)
Cooling System ¹	
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)	36.82 (2598)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	563.1 (1046)
Exhaust gas flow rate, m³/min (cfm)	109.3 (3860)
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)	194 (11033)
Heat rejection to exhaust (total), kW (Btu/min)	536 (30482)
Heat rejection to atmosphere from engine, kW (Btu/min)	43.5 (2474)
Heat rejection to aftercooler, kW (Btu/min)	136 (7734)

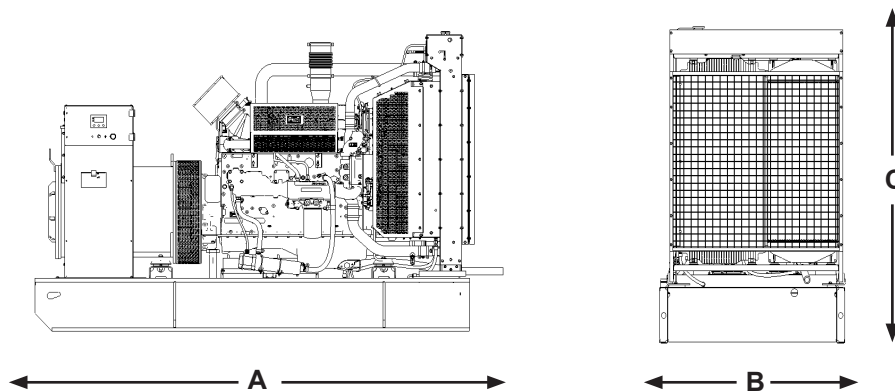
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Electric Power



Alternator ²	50 Hz		
	Voltages	380V	415V
Motor starting capability @ 30% Voltage Dip, skVA	1661	2217	1844
Current, amps	994.7	1032.0	1086.3
Temperature Rise, °C	150		
Frame Size	A3355L41		
Excitation	S.E		

WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
3328 (131.0)	1540 (60.6)	2187 (86.1)	3907 (8613.4)

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

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.

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

LET'S DO THE WORK.™

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