Cat® DE660 GC
Diesel Generator Sets

Standby & Prime: 50 Hz

Image shown might 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	Prime	Emission Strategy
DE660 GC	660 kVA	600 kVA	Low BSFC

PACKAGE PERFORMANCE

Performance	Standby	Prime
Genset Power Rating, kVA	660	600
Genset power rating with fan @ 0.8 power factor, ekW	528	480
Emissions	Low BSFC	
Performance Number	EM5624	EM5625
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	129 (34)	117 (30.9)
75% load with fan, L/hr (gal/hr)	98 (25.8)	89.5 (23.7)
50% load with fan, L/hr (gal/hr)	67.4 (17.8)	61.8 (16.3)
25% load with fan, L/hr (gal/hr)	38.3 (10.1)	35.5 (9.4)
Cooling System[1]		
Radiator air flow, m³/min (CFM)	477 (16845)	
Radiator air flow restriction (system), kPa (in. water)	0.12 (0.5)	
Total coolant capacity, L (gal)	48 (12.7)	
Inlet Air		
Max. combustion air intake restriction, kPa (in. water)	6.2 (25)	6.2 (25)
Combustion air inlet flow rate, m³/min (CFM)	35.4 (1251.5)	33.3 (1176)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	539 (1002)	529 (983)
Exhaust gas flow rate, m³/min (CFM)	101.8 (3593)	93.7 (3310)
Exhaust system backpressure (maximum allowable), kPa (in. water)	16.6 (67)	16.6 (67)

Heat Rejection		
Heat rejection to jacket water, kW (BTU/min)	178 (10118)	168 (9544)
Heat rejection to exhaust (total), kW (BTU/min)	488 (27752)	444 (25268)
Heat rejection to atmosphere from engine, kW (BTU/min)	39.7 (2258)	34.7 (1975)
Heat rejection to aftercooler, kW (BTU/min)	119 (6767)	102 (5793)

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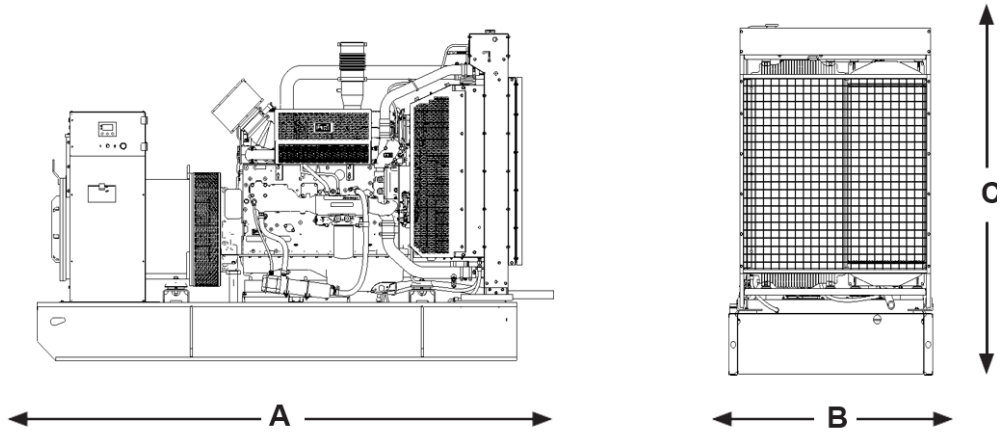
Electric Power

Alternator[2]	Standby			Prime		
Voltages	380V	415V	400V	380V	415V	400V
Motor starting capability @ 30% Voltage Dip, skVA	1466	1970	1627	1466	1970	1627
Current, Amps	918	953	1003	834	866	912
Temperature Rise, °C	150			150		
Frame Size	A3335L41			A3335L41		
Excitation	S.E			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)	3794 (8364.3)

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 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.

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. 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.

Fuel Rates Fuel rates are based on diesel with a 35 API gravity; a lower heating value is 42,780 kJ/kg (18,390 BTU/lb) when used at 15°C (59°F), where the density is 850 gm/l (7.0936 lbs/gal).

[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 ISO 8528-5.Consult your local Cat dealer for configuration and site specific transient performance classification.

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