Cat® DE600S 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
DE600S GC	600 ekW	545 ekW	Low BSFC

PACKAGE PERFORMANCE

Performance	Standby	Prime
Genset Power Rating, kVA	750	681
Genset power rating with fan @ 0.8 power factor, ekW	600	545
Emissions	Low BSFC	
Performance Number	EM5511	EM5512
Fuel Consumption		
100% load with fan, L/hr (gal/hr)	151.7 (40.1)	137.2 (36.2)
75% load with fan, L/hr (gal/hr)	114.7 (30.3)	104.8 (27.7)
50% load with fan, L/hr (gal/hr)	79.8 (21.1)	73.4 (19.4)
25% load with fan, L/hr (gal/hr)	46.4 (12.3)	43.3 (11.4)
Cooling System[1]		
Radiator air flow, m³/min (CFM)	661 (23343)	
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)	6.2 (25)	6.2 (25)
Combustion air inlet flow rate, m³/min (CFM)	43 (1518)	40.4 (1425)
Exhaust System		
Exhaust stack gas temperature, °C (°F)	532 (991)	517 (962)
Exhaust gas flow rate, m³/min (CFM)	123.5 (4361)	112.6 (3976)
Exhaust system backpressure (maximum allowable), kPa (in. water)	17.2 (69.1)	17.2 (69.1)

Heat Rejection		
Heat rejection to jacket water, kW (BTU/min)	200 (11387)	182 (10342)
Heat rejection to exhaust (total), kW (BTU/min)	586 (33325)	527 (29962)
Heat rejection to atmosphere from engine, kW (BTU/min)	53.8 (3060)	57.3 (3259)
Heat rejection to aftercooler, kW (BTU/min)	148 (8442)	126 (7173)

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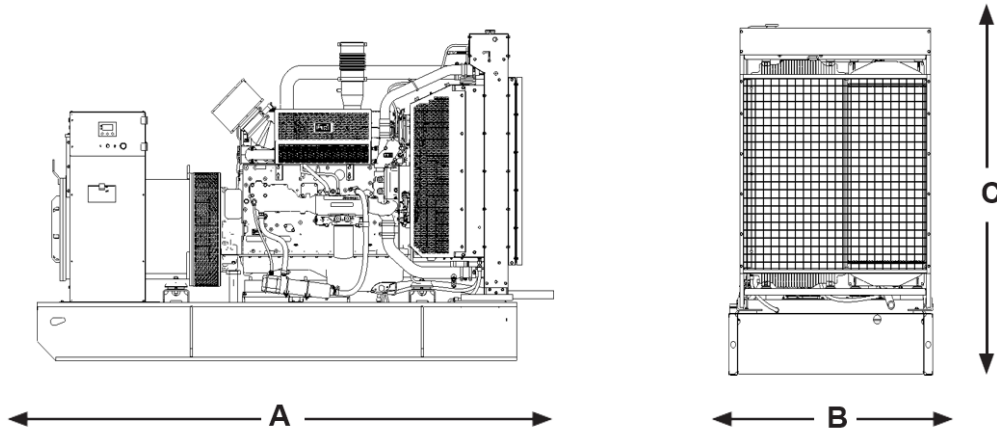
Electric Power

Alternator[2]	Standby					Prime			
Voltages	480V	440V	220V	380V	240V	480V	440V	220V	240V
Motor starting capability @ 30% Voltage Dip, skVA	1955	1641	1641	1226	1955	1955	1641	1641	1955
Current, Amps	902	984	1968	1065	1804	819	894	1788	1639
Temperature Rise, °C	130	150	150	150	130	130	150	150	130
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.