

Prime: 50Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C18 In-line 6, 4-cycle Diesel
Bore x Stroke	145 mm x 183 mm (5.7in x 7.2in)
Displacement	18.1 L (1106 in³)
Compression Ratio	14.5:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	MEUI
Governor	Electronic ADEM™ A4

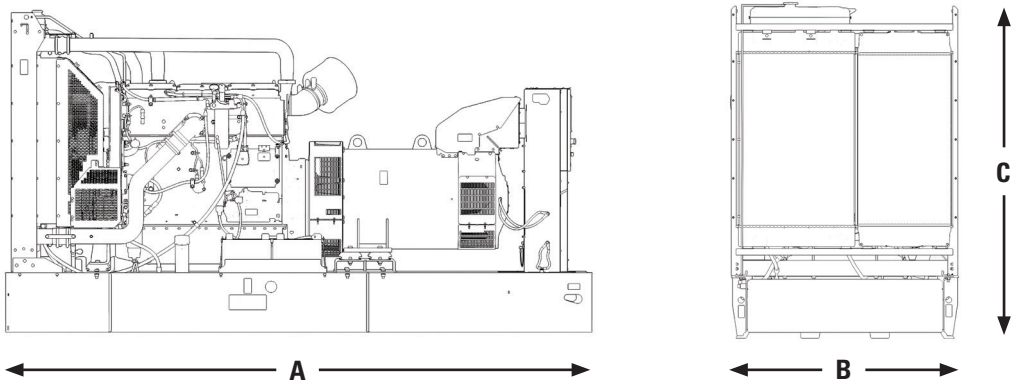
Model	Prime	Emission Strategy
DE600C3	600 kVA, 480 ekW	China Non-Road-III

PACKAGE PERFORMANCE

Performance	Prime
Frequency	50 Hz
Genset Power Rating	600 kVA
Genset power rating with fan @ 0.8 power factor	480 ekW
Emissions	China Non-Road-III
Performance Number	EM0553
Fuel Consumption	
100% load with fan, L/hr (gal/hr)	127.2 (33.6)
75% load with fan, L/hr (gal/hr)	100.6 (26.5)
50% load with fan, L/hr (gal/hr)	70.0 (18.4)
25% load with fan, L/hr (gal/hr)	39.6 (10.4)
Cooling System¹	
Radiator air flow restriction (system), kPa (in. water)	0.12 (0.48)
Radiator air flow, m³/min (cfm)	374 (13207)
Engine coolant capacity, L (gal)	20.8 (5.5)
Radiator coolant capacity, L (gal)	34 (8.9)
Total coolant capacity, L (gal)	54.8 (14.4)
Inlet Air	
Combustion air inlet flow rate, m³/min (cfm)	37.8 (1335)
Max. allowable combustion air inlet temp, °C (°F)	49 (120)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	543.1 (1009.6)
Exhaust gas flow rate, m³/min (cfm)	83.5 (2948.0)
Exhaust system backpressure (maximum allowable), kPa (in. water)	10.0 (40.0)
Heat Rejection	
Heat rejection to jacket water, kW (Btu/min)	151 (8587)
Heat rejection to exhaust (total), kW (Btu/min)	483 (27468)
Heat rejection to aftercooler, kW (Btu/min)	117 (6654)
Heat rejection to atmosphere from engine, kW (Btu/min)	75 (4265)

Emissions (Nominal) ²	Prime
NOx, mg/Nm ³ (g/hp-hr)	1419 (3.0)
CO, mg/Nm ³ (g/hp-hr)	311 (0.69)
HC, mg/Nm ³ (g/hp-hr)	5.1 (0.01)
PM, mg/Nm ³ (g/hp-hr)	29 (0.08)
Alternator ³	Prime
Voltages	440V
Motor starting capability @ 30% Voltage Dip	1739 skVA
Current	794
Frame Size	A3335L4
Excitation	SE
Temperature Rise	105°C

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)
3910 (154)	1461 (58)	2156 (85)	3862 (8514)

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.

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.

RATINGS: Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 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 Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 BTU/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.
- ³ Generator temperature rise is based on a 40° C ambient per IEC60034-1.

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