Cat® C4.4 DIESEL GENERATOR SETS

Standby & Prime: 60Hz

Image shown might not reflect actual configuration

Engine Model	Cat® C4.4 In-line 4, 4-cycle diesel
Bore x Stroke	105mm x 127mm (4.13in x 5.0 in)
Displacement	4.4 L (268.5 in³)
Compression Ratio	18.2:1
Aspiration	Turbocharged
Fuel Injection System	Common Rail
Governor	Electronic (adjustable)

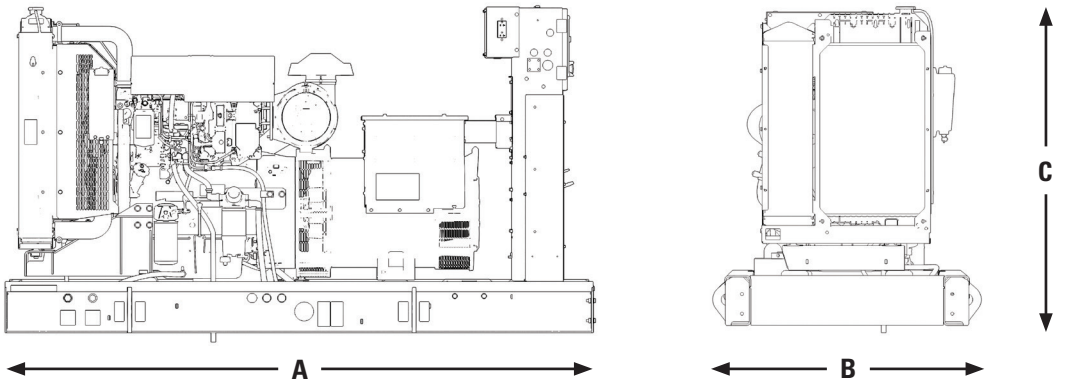
Model	Prime	Emission Strategy
C4.4	**36 ekW, 45 kVA**	**SCAQMD Complaint (Meets nonroad U.S. EPA Tier 3 equivalent emission standards)**

PACKAGE PERFORMANCE

Performance	Prime
Frequency	60 Hz
Genset Power Rating	45 kVA
Gen set power rating with fan @ 0.8 power factor	36 ekW
Performance Number	P3454D-00
Fuel Consumption	
100% load with fan, L/hr (gal/hr)	12.6 (3.3)
75% load with fan, L/hr (gal/hr)	10.0 (2.6)
50% load with fan, L/hr (gal/hr)	7.6 (2.0)
Cooling System[1]	
Radiator air flow restriction (system), kPa, (in. Water)	0.12 (0.48)
Engine coolant capacity, L (gal)	7.0 (1.8)
Radiator coolant capacity, L (gal)	9.5 (2.5)
Total coolant capacity, L (gal)	16.5 (4.4)
Inlet Air	
Combustion air inlet flow rate, m³/min (cfm)	5.2 (183.6)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	50 (122)
Exhaust System	
Exhaust stack gas temperature, °C (°F)	532 (990)
Exhaust gas flow rate, m³/min (cfm)	12.8 (452.0)
Exhaust system backpressure (maximum allowable), kPa (in. water)	15.0 (60.2)
Heat Rejection	
Heat rejection to coolant, kW (Btu/min)	42.3 (2406)
Heat rejection to exhaust (total), kW (Btu/min)	59.3 (3372)
Heat rejection to atmosphere from engine, kW (Btu/min)	10.8 (614.2)

Emissions (Nominal)[2]	Prime
NOx + HC, g/kW-hr	4.42
CO, g/kW-hr	1.02
PM, g/kW-hr	0.26
Alternator[3]	
Voltages	480V
Motor starting capability @ 30% Voltage Dip	105 skVA
Frame Size	LC1514J
Excitation	Self Excited
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)
1972 (77.6)	**1000 (39.4)**	**1175 (46.3)**	**861 (1898)**

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 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.

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] UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.

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