

# Cat® C4.4

## Diesel Generator Sets



Image shown may not reflect actual configuration.

Engine Model	Cat® C4.4 In-line 4, 4-cycle Diesel
Bore x Stroke	105 mm x 127 mm (4.13 in x 5.0 in)
Displacement	4.4 L (268.5 in³)
Compression Ratio	16.7:1
Aspiration	Turbocharged
Fuel Injection System	Common Rail
Governor	Electronic

Model	Standby	Prime	Emissions Strategy
D500 GC	60 ekW, 75kVA	55 ekW, 68.8 kVA	U.S. EPA Certified for Stationary Emergency Application (Tier 3 Nonroad Equivalent Emission Standards)

### PACKAGE PERFORMANCE

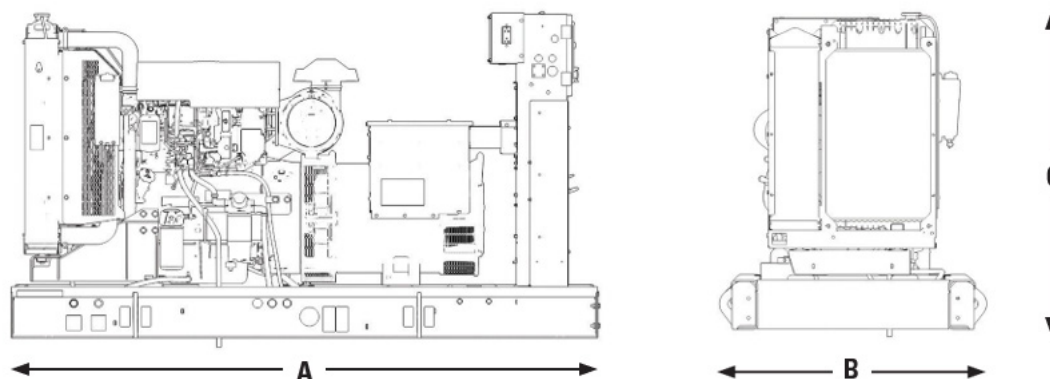
Performance	Standby	Prime
Frequency	60 Hz	60 Hz
Genset power rating, ekW (3-Phase / 1-Phase)	60 / 60	55 / 55
Genset power rating, kVA (3-Phase / 1-Phase)	75 / 60	68.8 / 55
Performance number	P4506A	P4506C
<b>Fuel Consumption</b>		
100% load with fan, L/hr (gal/hr)	18.9 (5.0)	18.1 (4.8)
75% load with fan, L/hr (gal/hr)	16.1 (4.2)	15.2 (4.3)
50% load with fan, L/hr (gal/hr)	12.3 (3.3)	11.6 (3.1)
<b>Cooling System<sup>1</sup></b>		
Radiator air flow restriction (system), kPa (in water)	0.12 (0.48)	0.12 (0.48)
Engine coolant capacity, L (gal)	7 (1.8)	7 (1.8)
Radiator coolant capacity, L (gal)	9.5 (2.5)	9.5 (2.5)
Total coolant capacity, L (gal)	16.5 (4.4)	16.5 (4.4)
<b>Inlet Air</b>		
Combustion air inlet flow rate, m³/min (cfm)	6.17 (218)	6.02 (212)
Max. allowable combustion air inlet temp, °C (°F)	50 (122)	50 (122)
<b>Exhaust System</b>		
Exhaust stack gas temperature, °C (°F)	522 (972)	501 (933)
Exhaust gas flow rate, m³/min (cfm)	14.48 (511)	13.9 (491)
Exhaust system backpressure (maximum allowable), kPa (in. water)	15 (60.2)	15 (60.2)
<b>Heat Rejection</b>		
Heat rejection to coolant, kW (Btu/min)	47.1 (2672)	43.7 (2485)
Heat rejection to exhaust (total), kW (Btu/min)	66.9 (3805)	62 (3525)
Heat rejection to atmosphere from engine, kW (Btu/min)	11.9 (676)	11.2 (636)
<b>Emissions (Nominal)<sup>2</sup></b>		
NOx + HC, g/kW-hr	–	–
CO, g/kW-hr	–	–
PM, g/kW-hr	–	–

## C4.4 Diesel Generator Sets Electric Power



Alternator <sup>3</sup>	Standby	Prime
Voltages	240V	240V
Motor starting capability @ 30% Voltage Dip, skVA	182 skVA	182 skVA
Temperature Rise, °C	105	80
Temperature Rise, °C	105	130
Frame Size	LCB3114D	LCB3114D
Excitation	Self Excited	Self Excited

### WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
1972 (77.6)	1000 (39.4)	1175 (46.3)	1017 (2244)

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

#### APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO 3046, ISO 8528, 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 kW 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 ISO 3046 standard conditions.

#### DEFINITIONS AND CONDITIONS

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.

<sup>2</sup> Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO 8178-1 for measuring HC, CO, PM, NO<sub>x</sub>. 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.

<sup>3</sup> 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.

[www.cat.com/electricpower](http://www.cat.com/electricpower)

©2024 Caterpillar  
All rights reserved.

Materials and specifications are subject to change without notice.

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

# LET'S DO THE WORK.™

LEHE1049-05 (03/24)