

Standby & Prime: 60 Hz, 480V (3Ph) & 240V (1Ph)

Engine Model	Cat® C4.4 In-line 4, 4-cycle diesel
Bore x Stroke	105mm x 127mm (4.1in x 5.0 in)
Displacement	4.4 L (269 in ³)
Compression Ratio	16.7:1
Aspiration	Turbocharged
Fuel Injection System	Common Rail

Standby	Prime	Performance Strategy
60 ekW	55 ekW	EPA TIER III



PACKAGE PERFORMANCE

Performance	Standby		Prime	
	3-Phase	1-Phase	3-Phase	1-Phase
Genset power rating	75 kVA	60 kVA	67 kVA	55 kVA
Genset power rating with fan @ 0.8 power factor	60 ekW	60 ekW	55 ekW	55 ekW
Performance number	P4506A	P3468A	P4506P	P4506C
Fuel Consumption				
100% Load with fan	18.8 L/hr, 5.0 gal/hr	18.8 L/hr, 5.0 gal/hr	18.0 L/hr, 4.7 gal/hr	18.1 L/hr, 4.8 gal/hr
75% Load with fan	15.8 L/hr, 4.2 gal/hr	15.8 L/hr, 4.2 gal/hr	14.9 L/hr, 3.9 gal/hr	15.2 L/hr, 4.0 gal/hr
50% Load with fan	11.9 L/hr, 3.1 gal/hr	11.9 L/hr, 3.1 gal/hr	11.1 L/hr, 2.9 gal/hr	11.6 L/hr, 3.1 gal/hr
Cooling System¹				
Radiator air flow restriction (system)	0.12 kPa, 0.48 in. water		0.12 kPa, 0.48 in water	
Engine coolant capacity	7.0 L, 1.8 gal	9.5 L, 2.5 gal	7.0 L, 1.8 gal	9.5 L, 2.5 gal
Radiator coolant capacity	9.5 L, 2.5 gal	7.0 L, 1.8 gal	9.5 L, 2.5 gal	7.0 L, 1.8 gal
Total coolant capacity	16.5 L, 4.3 gal	16.5 L, 4.3 gal	16.5 L, 4.3 gal	16.5 L, 4.3 gal
Inlet Air				
Combustion air inlet flow rate	6.17 m ³ /min, 218 cfm	6.2 m ³ /min, 218 cfm	6.02 m ³ /min, 212 cfm	6.0 m ³ /min, 213 cfm
Max. allowable combustion air inlet temp	45°C, 113°F			
Exhaust System				
Exhaust stack gas temperature	644°C, 1191°F	644°C, 1191°F	616.0°C, 1126°F	616°C, 1140°F
Exhaust gas flow rate	14.5 m ³ /min, 512 cfm	14.5 m ³ /min, 512 cfm	14.0 m ³ /min, 491 cfm	13.9 m ³ /min, 491 cfm
Exhaust system backpressure (maximum allowable)	15.0 kPa, 60.2 in. water	15.0 kPa, 60.2 in water	15.0 kPa, 60.2 in. water	15.0 kPa, 60.2 in water
Exhaust flange size (internal diameter)	64 mm, 2.51 in	64 mm, 2.51 in	64 mm, 2.51 in	64 mm, 2.51 in
Heat Rejection				
Heat rejection to coolant (total)	47.1 kW, 2681 Btu/min	47.1 kw, 2678 Btu/min	43.0 kW, 2445 Btu/min	43.0 kw, 2445 Btu/min
Heat rejection to exhaust (total)	66.9 kW, 3805 Btu/min	66.9 kw, 3805 Btu/min	62.0 kW, 3526 Btu/min	62.0 kw, 3526 Btu/min
Heat rejection to Atmosphere from Engine	11.9 kW, 677 Btu/min	11.9 kw, 677 Btu/min	11.2 kW, 637 Btu/min	11.2 kw, 636 Btu/min
Heat rejection from alternator	5.7 kW, 324 Btu/min	6.4 kw, 364 Btu/min	5.0 kW, 284 Btu/min	5.8 kw, 330 Btu/min
Lube System				
Sump refill with filter	8.4 L, 2.0 gal	8.4 L, 2.0 gal	8.4 L, 2.0 gal	8.4 L, 2.0 gal

Emissions (Nominal) ²	Standby		Prime	
	3-Phase	1-Phase	3-Phase	1-Phase
NOx + HC	g/kW-hr	g/kW-hr	g/kW-hr	g/kW-hr
CO	g/kW-hr	g/kW-hr	g/kW-hr	g/kW-hr
PM	g/kW-hr	g/kW-hr	g/kW-hr	g/kW-hr
Alternator ³				
Voltages	480V	240V	480V	240V
Motor starting capability @ 30% Voltage Dip	157 skVA	182 skVA	157 skVA	182 skVA
Frame Size	LC1514P	LCB3114D	LC1514P	LCB3114D
Excitation	Self Excited	Self Excited	Self Excited	Self Excited
Temperature Rise	130°C, 234°F	105°C, 189°F	125°C, 225°F	80°C, 144°F

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 The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% Prime load. This information should not be used for permitting purposes and is subject to change without notice. Contact your Caterpillar dealer for further details.

³ Generator temperature rise is based on a 40°C (104°F) ambient per NEMA MG1-32

APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No 100-04, UL142, UL489, UL601, UL869, UL2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33, 72/23/EEC, 98/37/EC, 2004/108/EC.

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.

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.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

Fuel Rates are based on fuel oil to specification EPA 2D 89.330-96 with a density of 0.845 – 0.850 kg/L (7.052 – 7.094 lbs/U.S. gal.) @ 15°C (59°F) and fuel inlet temperature 40°C (104°F). Additional ratings may be available for specific customer requirements, contact your Cat representative for details.

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