

Image shown may not reflect
actual Engine

SPECIFICATIONS

Vee-8, 4-Stroke-Cycle-Diesel

Emissions.....	IMO
Displacement.....	18.02 L (1,099.65 in ³)
Rated Engine Speed.....	1800
Bore.....	137.2 mm (5.4 in)
Stroke.....	152.4 mm (6.0 in)
Aspiration.....	Turbocharged-Aftercooled
Governor.....	Hydra-mechanical
Cooling System.....	Keel Cooled
Weight, Net Dry (approx.)	
Refill Capacity	
Cooling System.....	57.4 L (15.2 gal)
Lube Oil System.....	46.0 L (12.2 gal)
Oil Change Interval.....	250 hrs
Rotation (from flywheel end).....	Counterclockwise
Flywheel and Flywheel Housing.....	SAE NO. 0
Flywheel Teeth.....	136
Fuel Consumption.....	102.7 L/hr (27.1 Gal/hr)

STANDARD ENGINE EQUIPMENT

Air Inlet System

Corrosion resistant aftercooler core, regular duty panel type air cleaner with service indicator, turbocharger inlet

Cooling System

gear driven centrifugal jacket water pump, expansion tank, engine oil cooler, thermostats and housing, engine mounted radiator, blower fan, fan drive, fan guard, transmission oil cooler

Exhaust System

Watercooled exhaust manifold and turbocharger, round flanged outlet, dry elbow and flange

Fuel System

Fuel filter - RH service, fuel transfer pump, fuel priming pump, flexible lines, fuel ratio control

Control System

hydra-mechanical governor, PSG governor, governor vernier and positive locking control, RH with hydra-mechanical governor

Instrumentation

Heavy duty SAE standard rotation tachometer drive, RH instrument panel with engine oil pressure, water temperature, and fuel pressure gauges, service meter

Lube System

Crankcase breather, oil filter - RH service, oil level gauge - RH service, oil filler in valve cover - RH service, manual oil sump pump, recommended use of Caterpillar Diesel Engine Oil 10W30 or 15W40

Mounting System

Front support

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ISO Certification

Factory-designed systems built at Caterpillar
ISO 9001:2000 certified facilities

PERFORMANCE DATA

PRIME - DM6115-00

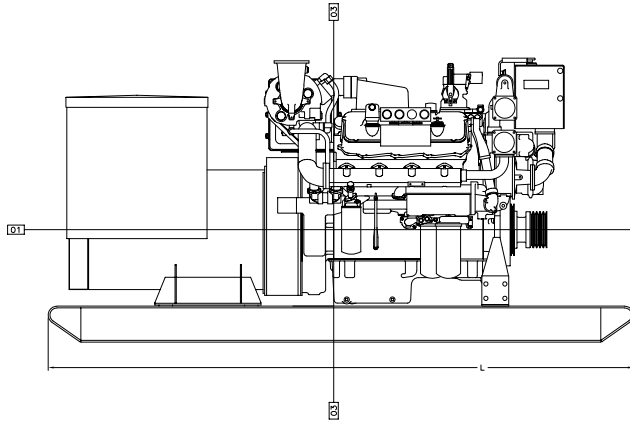
General Performance Data						
Generator eKW/eKW	Percent Load	Engine Power Bhp/BKW	Fuel Rate Lb/hp/hr - G/BKW_HR	Fuel Rate Gal/hr LPH	Intake Air Flow CFM - M3/MIN	Exh Gas Flow CFM - M3/MIN
37	10.0	55.8 (41.6)	.604 (367.5)	4.805 (18.2)	455.6 (12.9)	727.5 (20.6)
74	20.0	110.5 (82.4)	.451 (274.5)	7.102 (26.9)	494.4 (14)	868.7 (24.6)
92.5	25.0	137.3 (102.4)	.421 (256.2)	8.263 (31.3)	515.6 (14.6)	946.4 (26.8)
111	30.0	164 (122.3)	.402 (244.4)	9.398 (35.6)	543.8 (15.4)	1,031.2 (29.2)
148	40.0	216.4 (161.4)	.379 (230.4)	11.695 (44.3)	603.9 (17.1)	1,211.3 (34.3)
185	50.0	267.9 (199.8)	.367 (223.4)	14.045 (53.2)	674.5 (19.1)	1,402 (39.7)
222	60.0	321.6 (239.8)	.361 (219.6)	16.579 (62.8)	759.3 (21.5)	1,613.9 (45.7)
259	70.0	375.4 (279.9)	.357 (217.3)	19.14 (72.5)	847.6 (24)	1,836.4 (52)
277.5	75.0	402.3 (300)	.356 (216.5)	20.434 (77.4)	893.5 (25.3)	1,952.9 (55.3)
296	80.0	429.1 (320)	.355 (215.9)	21.727 (82.3)	939.4 (26.6)	2,065.9 (58.5)
333	90.0	482.8 (360)	.353 (215)	24.367 (92.3)	1,034.7 (29.3)	2,284.9 (64.7)
370	100.0	536.4 (400)	.354 (215.4)	27.113 (102.7)	1,133.6 (32.1)	2,539.1 (71.9)

GENERATOR SPECIFICATIONS

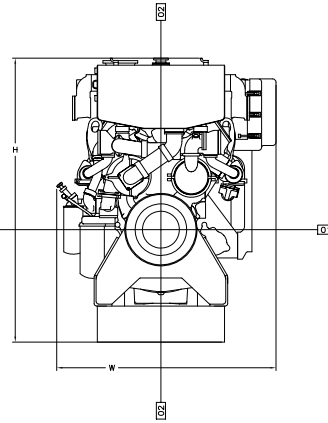
Frame Size.....	584
Excitation.....	Self Excited
Pitch.....	0.7222
Number of Poles.....	4
Number of bearings.....	Single Bearing
Number of leads.....	010
Insulation.....	UL 1446 Recognized Class H with tropicalization and antiabrasion
IP Rating.....	Drip Proof IP22
Alignment.....	Pilot Shaft
Overspeed capability.....	150
Wave Form Deviation (line to line).....	Less than 5% deviation
Paralleling kit Droop transformer.....	Standard
Voltage regulator.....	3 Phase sensing with selectable volts/Hz
Voltage regulation.....	SS
Telephone influence factor.....	Less than 50
Harmonic Distortion	

DIMENSIONS

Right Side



Front



Engine Dimensions		
(1) Length to Flywheel Housing	3308.5 mm	130.26 in
(2) Width	1239.4 mm	48.8 in
(3) Height	1605.1 mm	63.19 in
Weight, Net Dry (approx)	0 kg	0 lb

Note: Do not use for installation design. See general dimension drawings for detail (Drawing # 2309167).

RATING DEFINITIONS AND CONDITIONS

Power

at declared engine speed is in accordance with ISO3046-1:2002E. Caterpillar maintains ISO9001:1994/QS-9000 approved engine test facilities to assure calibration of test equipment. Electronically controlled engines are set at the factory at the advertised power corrected to standard ambient conditions. The published fuel consumption rates are in accordance with ISO3046-1:2002E.

Fuel rates

are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/L (7.001 lb/U.S. gal). Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturer's engines. Actual engine performance may vary according to the particular application of the engine and operating conditions beyond Caterpillar's control.

Power produced at the flywheel will be within standard tolerances up to 49° C (120° F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52° C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.

Performance No.: DM6115-00

Feature Code: 408DA44

U.S. Sourced

9839529

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Materials and specifications are subject to change without notice.

The International System of Units (SI) is used in this publication.

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