

**50 Hz, 1500 rpm
Radiator Cooled**



Image may not reflect actual engine

CATERPILLAR® ENGINE SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Displacement	4.4 L (269 cu. in.)
Bore	105 mm (4.13 in.)
Stroke	127 mm (4.99 in.)
Combustion	Direct Injection
Aspiration	Turbocharged-Aftercooled
Governor	Electronic
Gen Set Package Dry Weight (approx)	1076 kg (2372 lb)
Total System Capacity	
Cooling System	17.5 L (4.62 U.S. gal)
Lube Oil System	8.5 L (2.25 U.S. gal)
Oil Change Interval	500 hr
Rotation (from flywheel end)	Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Air cleaner, single element canister type with service indicator and rain cap; glowplug cold start system

Cooling System

Radiator cooled package (sized for up to 50°C ambient air) incorporating deaeration expansion tank, plate-type engine oil cooler, gear-driven centrifugal jacket water pump, Caterpillar® Extended Life Coolant

Exhaust System

Insulated exhaust elbow, water-cooled exhaust manifold

Fuel System

Primary fuel filter/water separator with NPT and BSP connectors (ship loose), secondary fuel filter (LH), fuel priming pump — electric, energize-to-run shutoff solenoid

Generator

12 lead reconnectable, 3 phase all models, brushless, separately excited from auxiliary winding to provide 300% short circuit current up to 10 seconds, 2/3 pitch, broad voltage band, IP23 water protection, solid state voltage regulator with integral voltage adjustment potentiometer, Class H insulation, connection poles

Governing System

Electronic governor

Lube System

Lubricating oil, oil filter (LH), dipstick (LH), fumes disposal (closed system)

Mounting System

Steel base frame with drip pan, anti-vibration mounts

Starting/Charging System

Negative isolated ground electric system

General

Single-side service (LH)

OPTIONAL ATTACHMENTS

Control System

Governor droop kit (selecting this kit enables paralleling with appropriate customer-supplied switchgear)

Generators & Generator Attachments

Space heater kit, installed — 120V AC, 240V AC

Fuel System

Double wall fuel lines and mounted alarm reservoir

Starting System

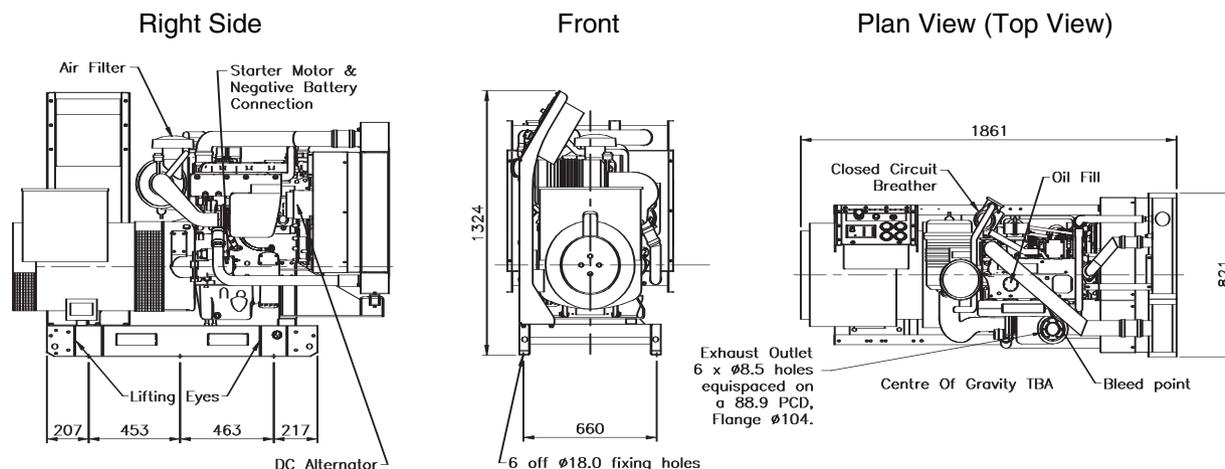
Jacket water heater options, additional 12 or 24 volt starter

Marine Classification Society (MCS) Approval

MCS approved packages available

General

PGS test report @ 1.0 power factor, extra literature, storage preservation, export packing: single engine shipment to U.S., 20-foot container engine shipments, 40-foot container engine shipments



DIMENSIONS

Package Dimensions		
Overall Length	1861 mm	73.3 in
Overall Height*	1174 mm	46.2 in
Overall Width	821 mm	32.3 in

*Height dimension does not include height to electronic control panel.

CATERPILLAR GENERATOR

Power Factor.....	1.0
Frame	C4.4
Insulation.....	Class H
Temperature Rise	
@ 40°C Ambient (110%)	Class H (150°K)
@ 50°C Ambient (110%)	Class H (140°K)
Winding Pitch Code	2/3
Terminals	12 lead reconnectable
Drip Proof.....	IP 23
Air Flow 50 Hz	0.37 m ³ /s (784 cfm)
Excitation System	AREP
Voltage Regulation (steady state)	±0.5%
Total Harmonic Content LL/LN	<4%
Wave Form: NEMA=TIF	<50
Wave Form: I.E.C.=THF.....	<2%

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 manufacturers' 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.

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PERFORMANCE DATA

50 Hz DITA

Fuel Consumption		
@ Full Power	24.6 L/hour	6.5 gph

RATING CONDITIONS

***Ratings** are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25°C (77°F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29.61 in. Hg), 27°C (81°F), and 60% relative humidity.

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.

*Ratings at 50°C (122°F) ambient are 81.5 ekW (102 kVA).