

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	Naturally Aspirated
Governor	Electronic
Gen Set Package Dry Weight (approx)	776 kg (1710 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

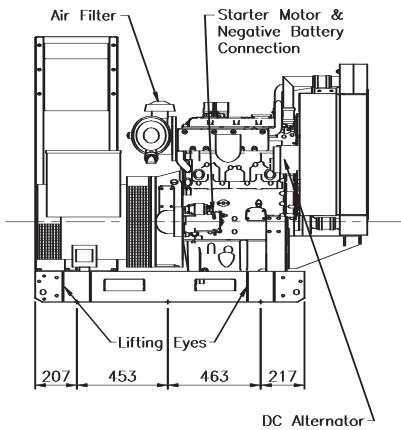
Marine Classification Society (MCS) Approval

MCS approved packages available

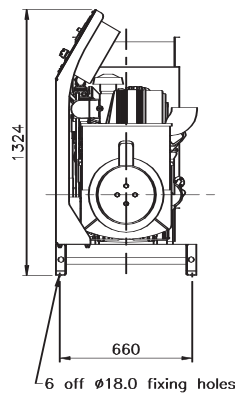
General

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

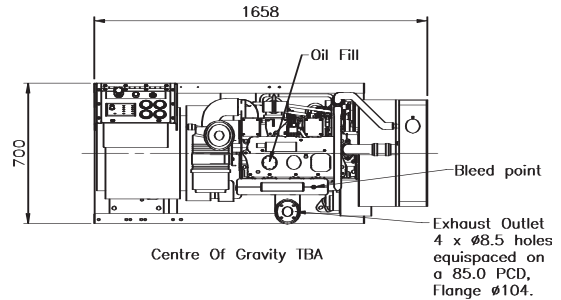
Right Side



Front



Plan View (Top View)



DIMENSIONS

Package Dimensions		
Overall Length	1658 mm	65.3 in
Overall Height*	1187 mm	46.7 in
Overall Width	700 mm	27.6 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	0.27 m ³ /s (572 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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

PERFORMANCE DATA

50 Hz DINA

Fuel Consumption		
@ Full Power	11 L/hour	2.9 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 33.5 ekW (42 kVA).

50 Hz, 1500 rpm

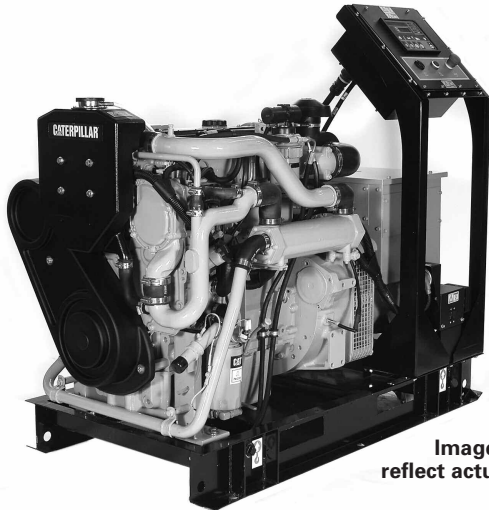


Image may not reflect actual engine

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	Naturally Aspirated
Governor	Electronic
Gen Set Package Dry Weight (approx).....	755 kg (1664 lb)
Total System Capacity	
Cooling System.....	16.5 L (4.36 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

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C amb. air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

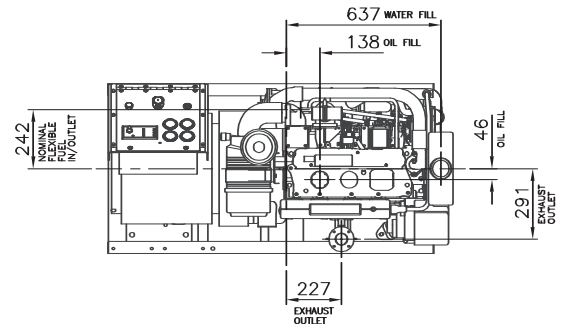
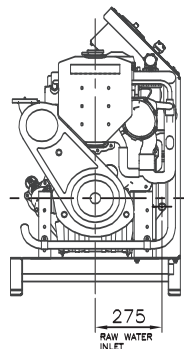
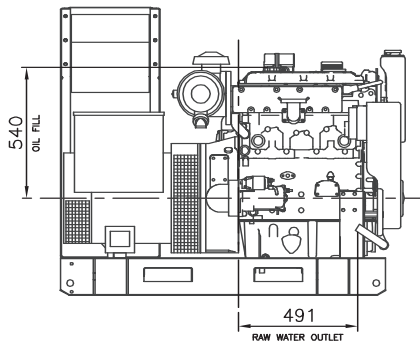
General

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

Right Side

Front

Footprint (Bottom View)



DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1422 (56.0)	1750 (68.9)
Overall Height*	1010 (39.8)	1215 (47.8)
Overall Width	700 (27.6)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°K)
Winding Pitch Code	2/3
Terminals	12 lead reconnectable
Drip Proof	IP 23
Air Flow 50 Hz	0.27 m ³ /s (572 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

50 Hz DINA

Fuel Consumption

@ Full Power 11 L/hour 2.91 gph

ENCLOSED SOUND DATA

50 Hz DINA

Sound levels are average sound pressure

level @ 1 meter and 100% load 72.9 db(A)

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 35.5 ekW (44 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

60 Hz, 1800 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	Naturally Aspirated
Governor	Electronic
Gen Set Package Dry Weight (approx.)	776 kg (1710 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

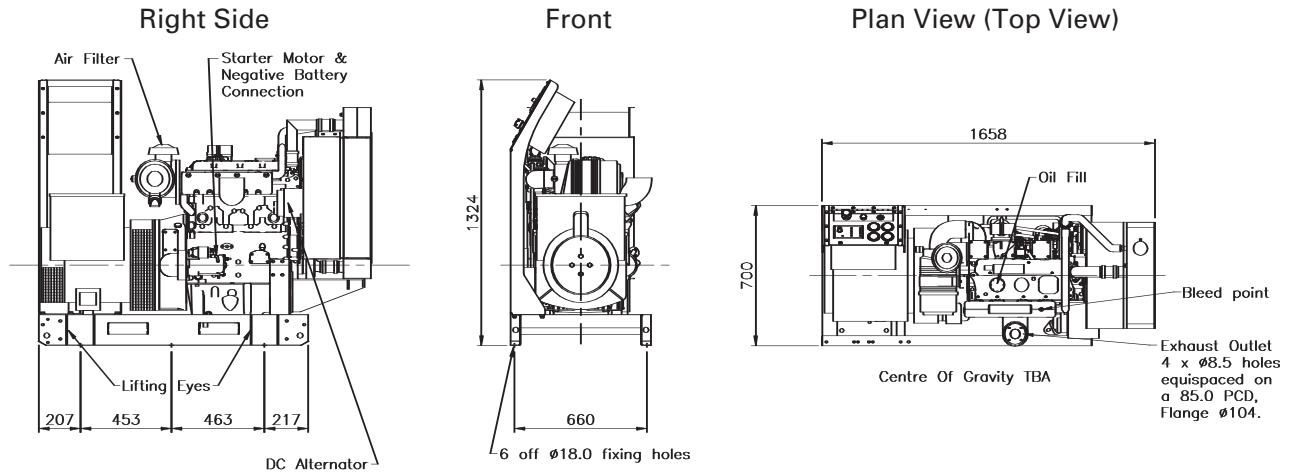
Jacket water heater options, additional 12 or 24 volt starter

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	1658 mm	65.3 in
Overall Height*	1187 mm	46.7 in
Overall Width	700 mm	27.7 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 60 Hz	0.32 m ³ /s (678 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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

PERFORMANCE DATA

60 Hz DINA

Fuel Consumption		
@ Full Power	13 L/hour	3.43 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 39.5 ekW (49 kVA).

50 Hz, 1500 rpm



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)	1029 kg (2269 lb)
Total System Capacity	
Cooling System	16.5 L (4.36 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; dry insulated turbocharger; glowplug cold start system

Cooling System

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C amb. air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

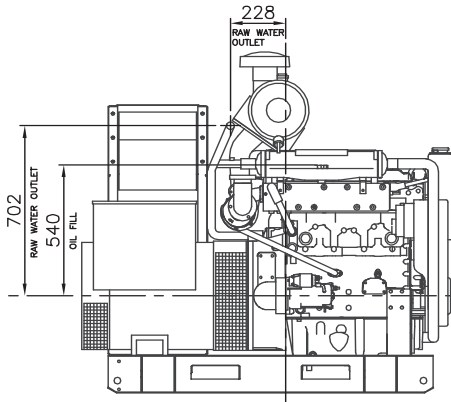
Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

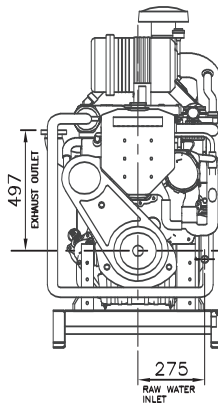
General

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

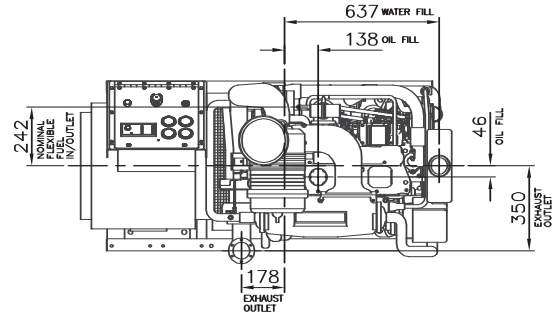
Right Side



Front



Footprint (Bottom View)



DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1529 (60.2)	1750 (68.9)
Overall Height*	1132 (44.6)	1215 (47.8)
Overall Width	724 (28.5)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°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

50 Hz DITA

Fuel Consumption

@ Full Power 18.6 L/hour 4.91 gph

ENCLOSED SOUND DATA

50 Hz DIN A

Sound levels are average sound pressure

level @ 1 meter and 100% load 70.3 db(A)

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 69 kW (86 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

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
Governor.....	Electronic
Gen Set Package Dry Weight (approx).....	856 kg (1887 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; dry insulated turbocharger; 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

Dry insulated turbocharger, water-cooled exhaust manifolds

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

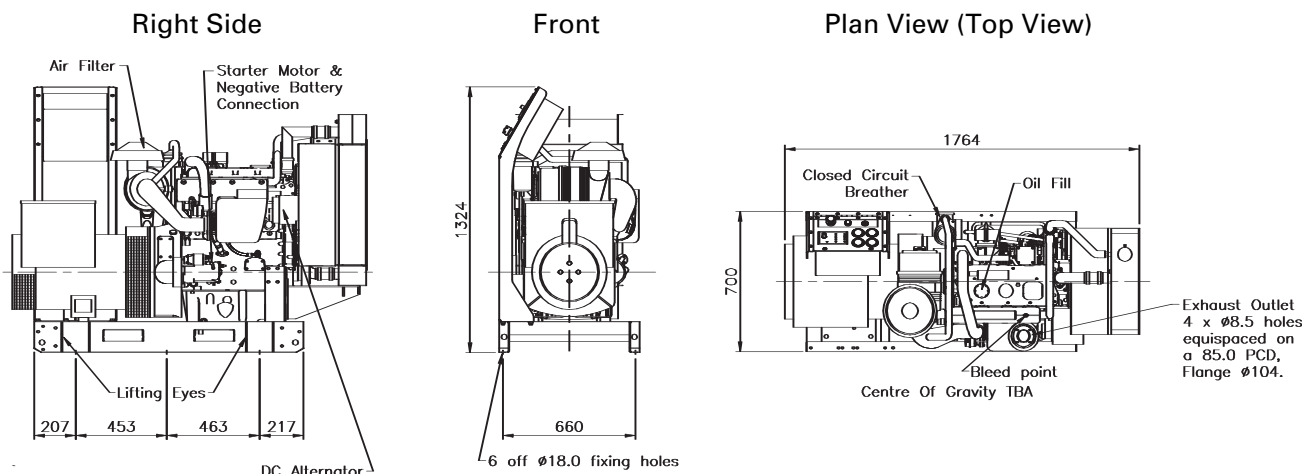
Jacket water heater options, additional 12 or 24 volt starter

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	1764 mm	69.5 in
Overall Height*	1187 mm	46.7 in
Overall Width	700 mm	27.6 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.....	0.27 m ³ /s (572 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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

PERFORMANCE DATA

50 Hz DIT

Fuel Consumption		
@ Full Power	14.8 L/hour	3.9 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 46.5 ekW (58 kVA).

50 Hz, 1500 rpm

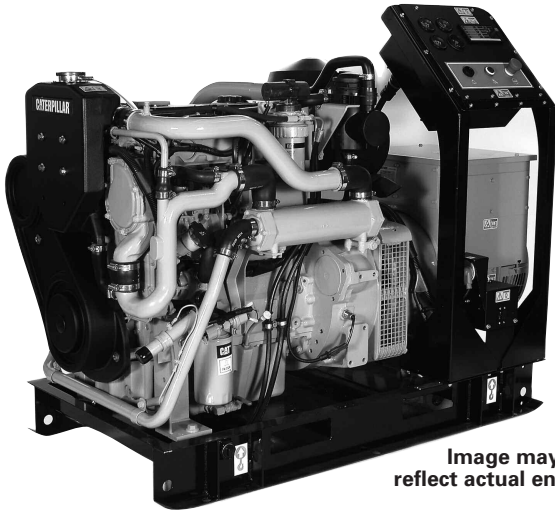


Image may not reflect actual engine

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
Governor	Electronic
Gen Set Package Dry Weight (approx)	835 kg (1841 lb)
Total System Capacity	
Cooling System	16.5 L (4.36 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; dry insulated turbocharger; glowplug cold start system

Cooling System

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C amb. air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

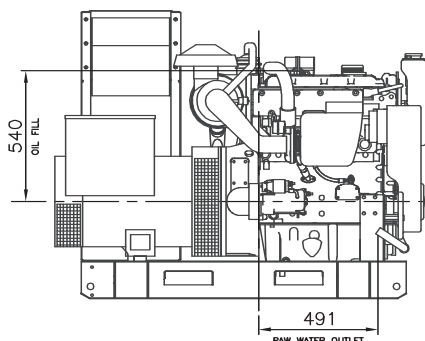
Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

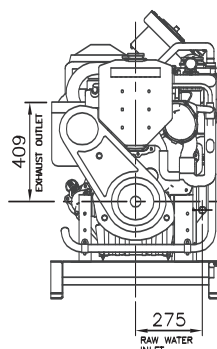
General

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

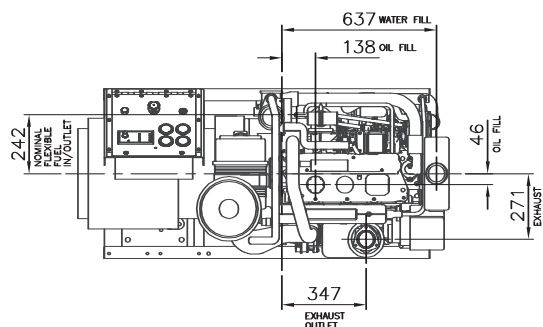
Right Side



Front



Footprint (Bottom View)



DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1529 (60.2)	1750 (68.9)
Overall Height*	1055 (41.5)	1215 (47.8)
Overall Width	700 (27.6)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°K)
Winding Pitch Code	2/3
Terminals	12 lead reconnectable
Drip Proof	IP 23
Air Flow 50 Hz	0.27 m ³ /s (572 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

50 Hz DIT

Fuel Consumption		
@ Full Power	14.8 L/hour	3.91 gph

ENCLOSED SOUND DATA

50 Hz DINA

Sound levels are average sound pressure level @ 1 meter and 100% load 67.8 db(A)

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 49 ekW (61 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

60 Hz, 1800 rpm
Radiator Cooled

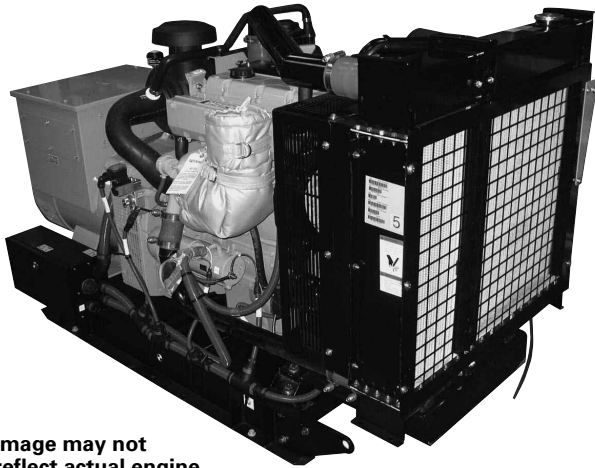


Image may not reflect actual engine

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
Governor Electronic
Gen Set Package Dry Weight
(approx)..... 856 kg (1887 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; dry insulated turbocharger; 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

Dry insulated turbocharger, water-cooled exhaust manifolds

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

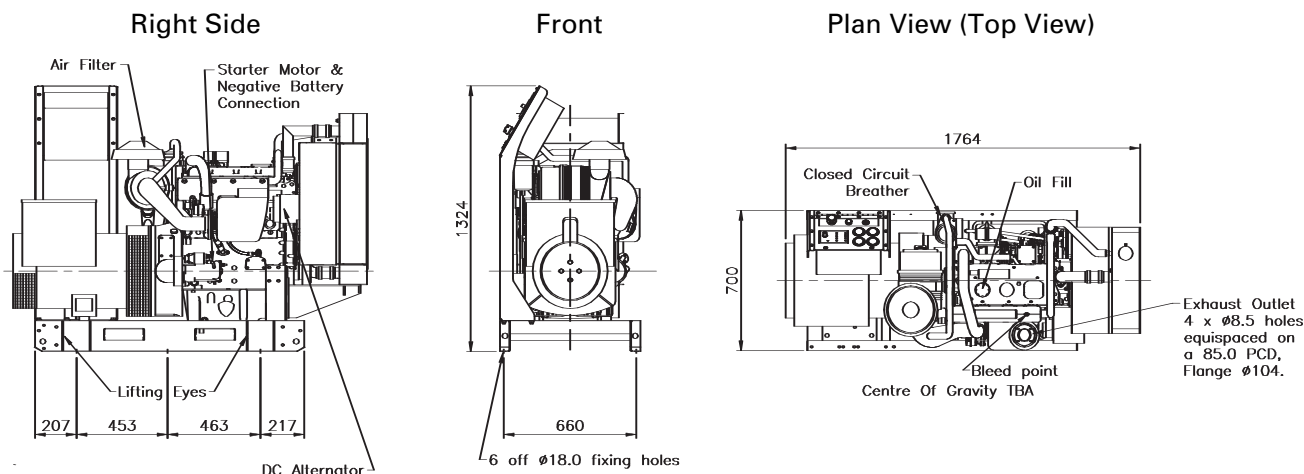
Jacket water heater options, additional 12 or 24 volt starter

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	1764 mm	69.5 in
Overall Height*	1187 mm	46.7 in
Overall Width	700 mm	27.6 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 60 Hz.....	0.32 m ³ /s (678 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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

PERFORMANCE DATA

60 Hz DIT

Fuel Consumption		
@ Full Power	16.9 L/hour	4.46 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 53 ekW (66 kVA).

60 Hz, 1800 rpm

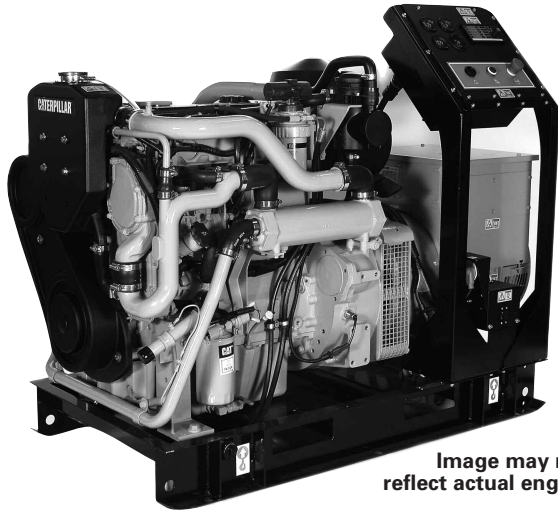


Image may not reflect actual engine

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
Governor	Electronic
Gen Set Package Dry Weight (approx)	835 kg (1841 lb)
Total System Capacity	
Cooling System	16.5 L (4.36 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; dry insulated turbocharger; glowplug cold start system

Cooling System

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C ambient air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

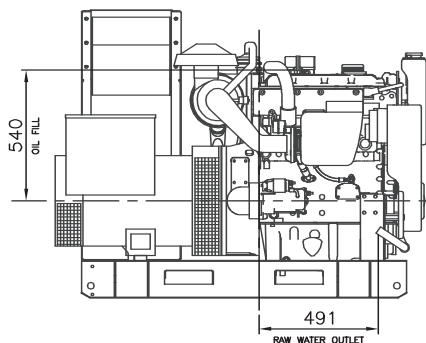
Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

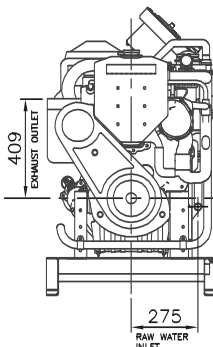
General

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

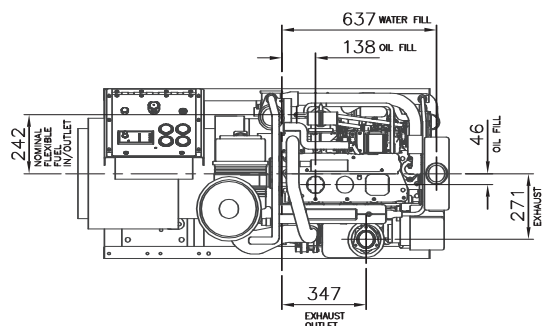
Right Side



Front



Footprint (Bottom View)



DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1529 (60.2)	1750 (68.9)
Overall Height*	1055 (41.5)	1215 (47.8)
Overall Width	700 (27.6)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°C)
Winding Pitch Code	2/3
Terminals	12 lead reconnectable
Drip Proof	IP 23
Air Flow 60 Hz	0.32 m ³ /s (678 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

60 Hz DIT

Fuel Consumption		
@ Full Power	16.9 L/hour	4.46 gph

ENCLOSED SOUND DATA

50 Hz DINA

Sound levels are average sound pressure level @ 1 meter and 100% load	71.6 db(A)
---	------------

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 55 ekW (69 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

60 Hz, 1800 rpm

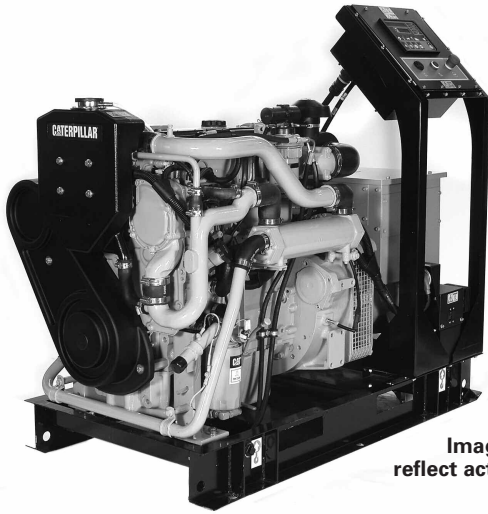


Image may not reflect actual engine

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.....	Naturally Aspirated
Governor.....	Electronic
Gen Set Package Dry Weight (approx).....	755 kg (1664 lb)
Total System Capacity	
Cooling System.....	16.5 L (4.36 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

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C ambient air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

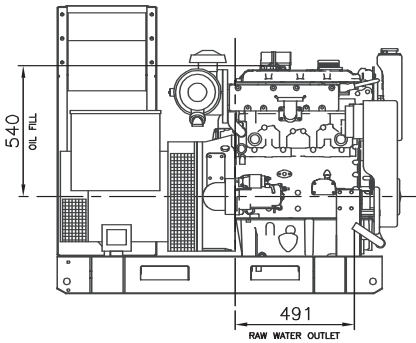
Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

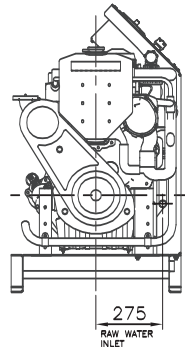
General

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

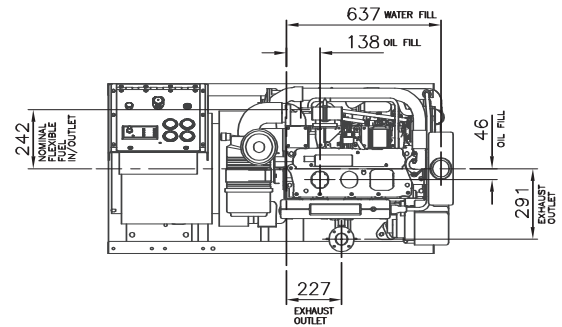
Right Side



Front



Footprint (Bottom View)



DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1422 (56.0)	1750 (68.9)
Overall Height*	1010 (39.8)	1215 (47.8)
Overall Width	700 (27.6)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°K)
Winding Pitch Code	2/3
Terminals	12 lead reconnectable
Drip Proof	IP 23
Air Flow 60 Hz	0.32 m ³ /s (678 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

60 Hz DINA

Fuel Consumption

@ Full Power 13 L/hour 3.43 gph

ENCLOSED SOUND DATA

50 Hz DINA

Sound levels are average sound pressure

level @ 1 meter and 100% load 75.1 db(A)

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 41.5 ekW (52 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

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).....	1021 kg (2251 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; dry insulated turbocharger; air-to-air charge cooler; 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

Dry insulated turbocharger, water-cooled exhaust manifolds

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

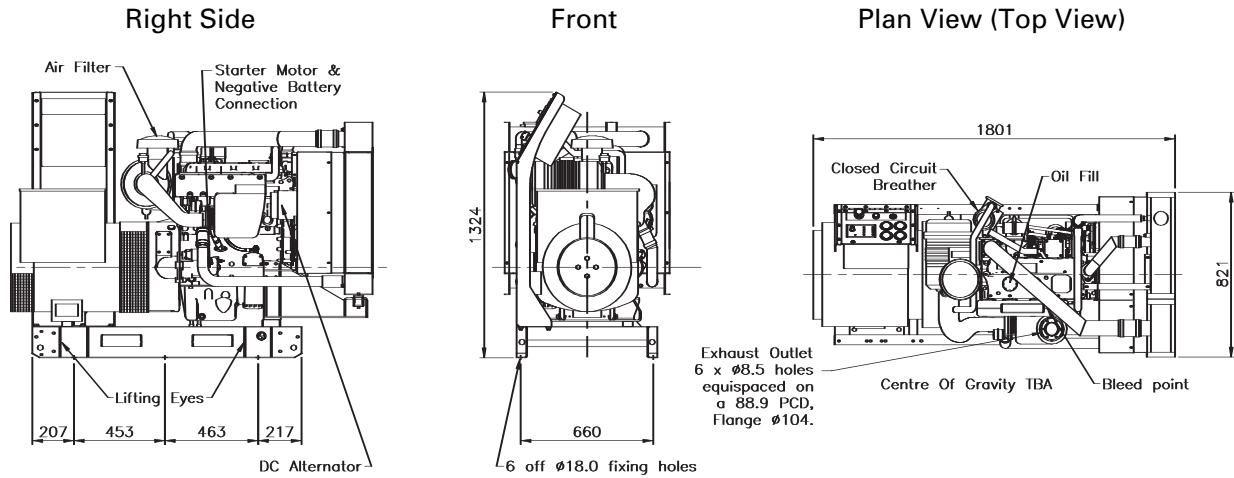
Jacket water heater options, additional 12 or 24 volt starter

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	1801 mm	70.9 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°C)
@ 50°C Ambient (110%)	Class H (140°C)
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)	$\pm 0.5\%$
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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

PERFORMANCE DATA

50 Hz DITA

Fuel Consumption
@ Full Power 18.6 L/hour 4.91 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 65 ekW (81 kVA).

**60 Hz, 1800 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).....	1021 kg (2251 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; dry insulated turbocharger; air-to-air charge cooler; 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

Dry insulated turbocharger, water-cooled exhaust manifolds

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

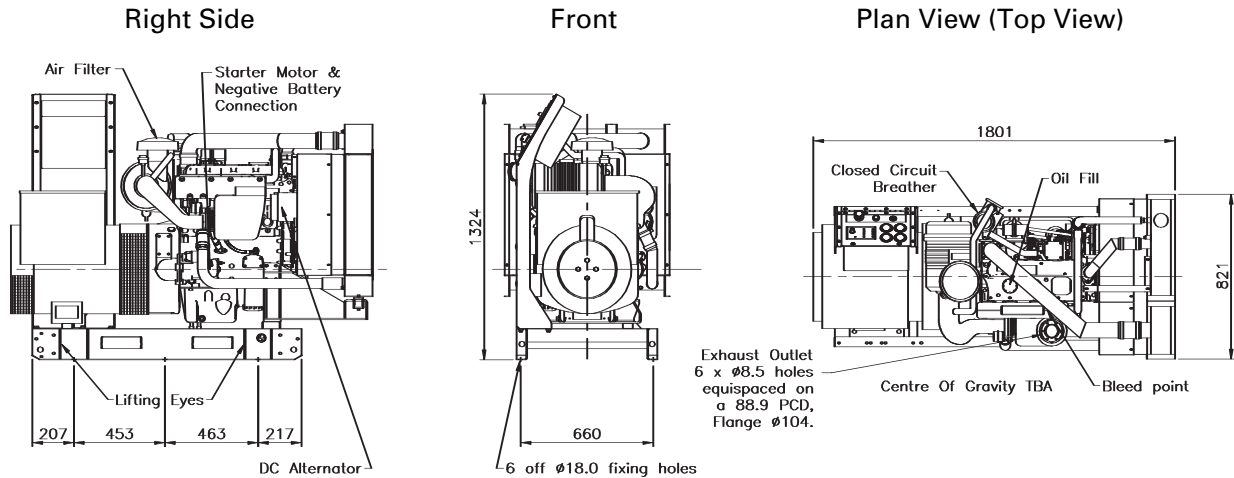
Jacket water heater options, additional 12 or 24 volt starter

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	1801 mm	70.9 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 60 Hz	0.44 m ³ /s (932 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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

PERFORMANCE DATA

60 Hz DITA

Fuel Consumption

@ Full Power 22 L/hour 5.81 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 72 ekW (90 kVA).

60 Hz, 1800 rpm



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)	1029 kg (2269 lb)
Total System Capacity	
Cooling System	16.5 L (4.36 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; dry insulated turbocharger; glowplug cold start system

Cooling System

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C ambient air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

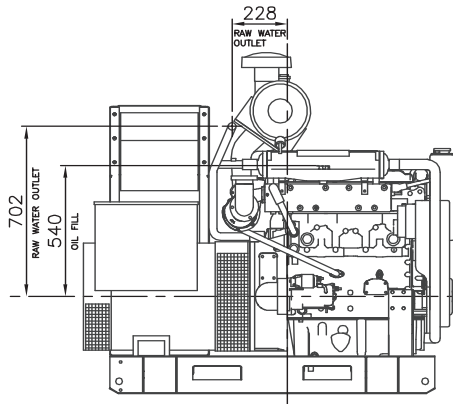
Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

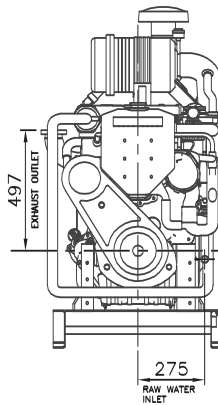
General

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

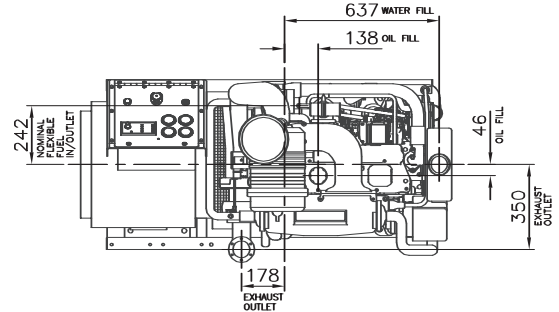
Right Side



Front



Footprint (Bottom View)



DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1529 (60.20)	1750 (68.9)
Overall Height*	1132 (44.60)	1215 (47.8)
Overall Width	724 (28.54)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°C)
Winding Pitch Code	2/3
Terminals	12 lead reconnectable
Drip Proof	IP 23
Air Flow 60 Hz	0.44 m ³ /s (932 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

60 Hz DITA

Fuel Consumption

@ Full Power 22.0 L/hour 5.81 gph

ENCLOSED SOUND DATA

50 Hz DIN A

Sound levels are average sound pressure

level @ 1 meter and 100% load 71.8 db(A)

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 76 ekW (95 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

**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

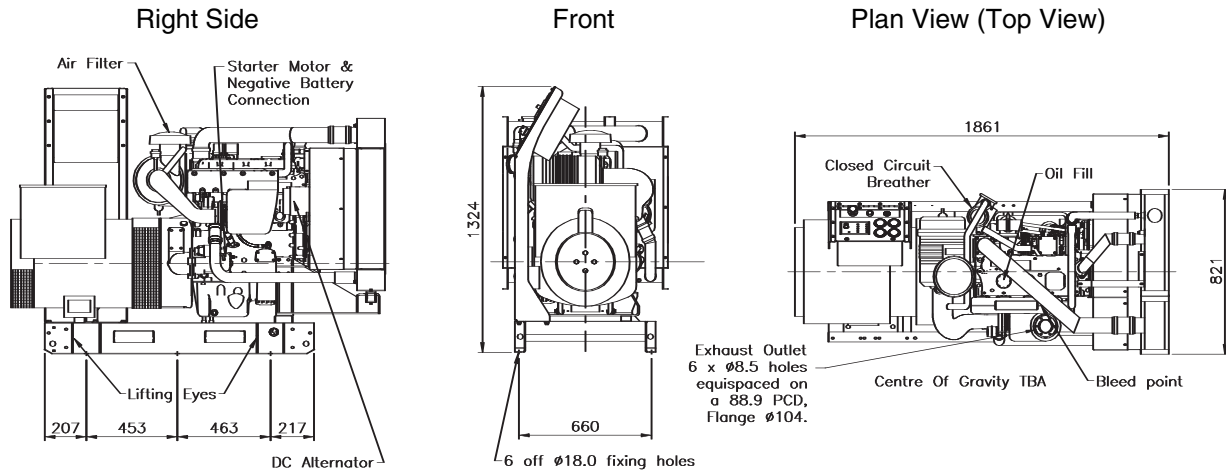
Jacket water heater options, additional 12 or 24 volt starter

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

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).

50 Hz, 1500 rpm



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).....	1029 kg (2269 lb)
Total System Capacity	
Cooling System.....	16.5 L (4.36 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; dry insulated turbocharger; glowplug cold start system

Cooling System

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C amb. air and 32°C sea water) or keel-cooled packages (sized for 50°C ambient air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

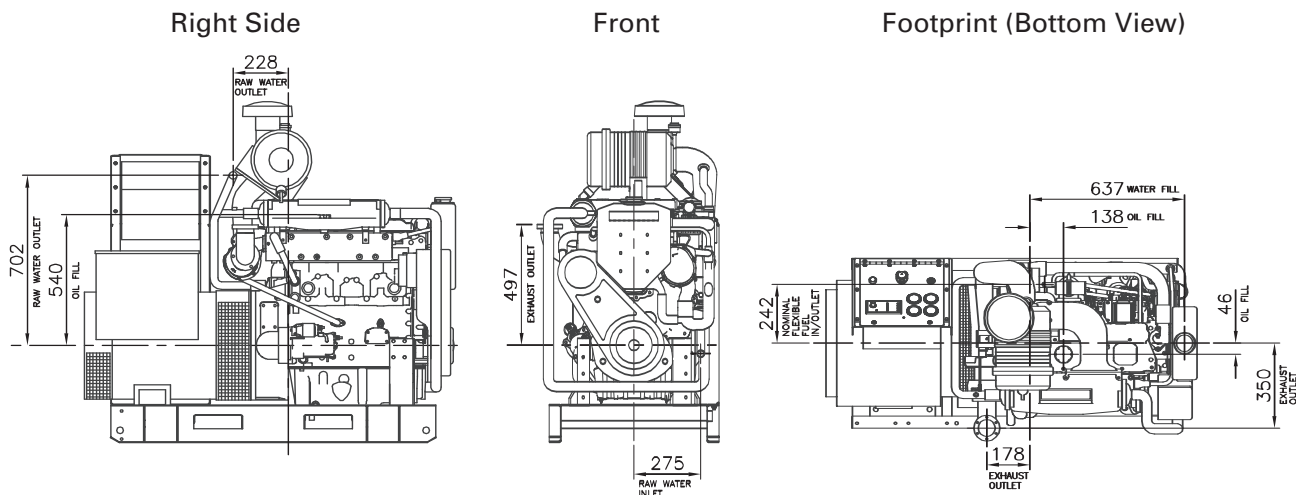
Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

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

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1589 (62.56)	1750 (68.9)
Overall Height*	1132 (44.60)	1215 (47.8)
Overall Width	724 (28.54)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°C)
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

50 Hz DITA

Fuel Consumption		
@ Full Power	24.6 L/hour	6.50 gph

ENCLOSED SOUND DATA

50 Hz DINA

Sound levels are average sound pressure level @ 1 meter and 100% load	71.9 db(A)
---	------------

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 85.5 ekW (107 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

**60 Hz, 1800 rpm
Radiator Cooled**

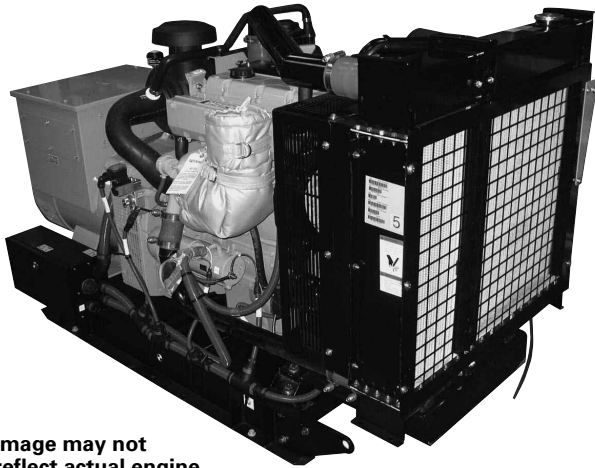


Image may not reflect actual engine

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; dry insulated turbocharger; air-to-air charge cooler; 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

Dry insulated turbocharger, water-cooled exhaust manifolds

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

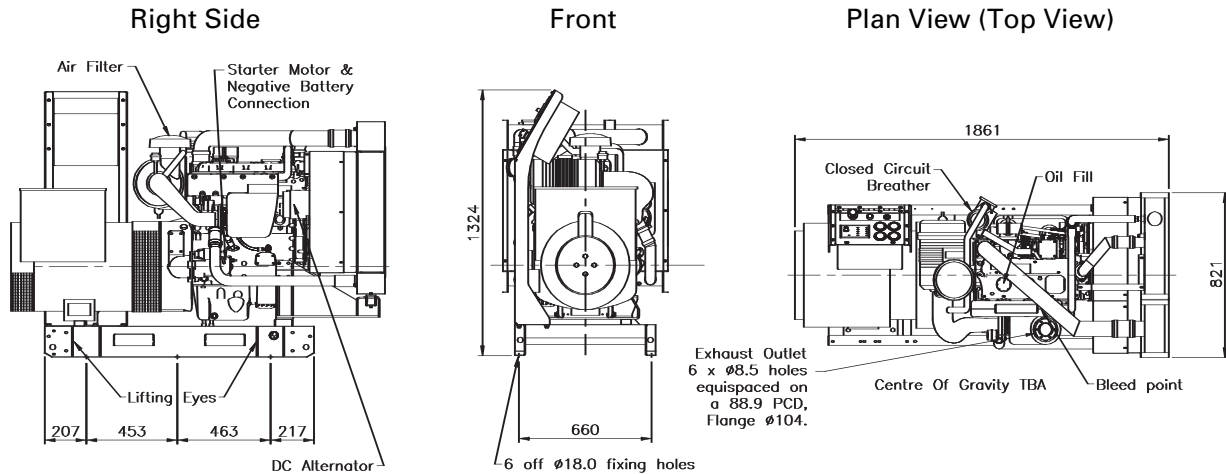
Jacket water heater options, additional 12 or 24 volt starter

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 60 Hz	0.44 m ³ /s (932 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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

PERFORMANCE DATA

60 Hz DITA

Fuel Consumption

@ Full Power 27.7 L/hour 7.32 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 94 ekW (118 kVA).

60 Hz, 1800 rpm



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).....	1029 kg (2269 lb)
Total System Capacity	
Cooling System.....	16.5 L (4.36 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; dry insulated turbocharger; glowplug cold start system

Cooling System

Heat exchanger-cooled packages with Cupro-nickel tube bundle (sized for 50°C amb. air and 32°C sea water) or keel-cooled packages (sized for 50°C amb. air); deaeration expansion tank, plate-type engine, gear-driven centrifugal jacket water pump, gear-driven self priming sea water pump, Caterpillar® Extended Life Coolant (heat exchanger-cooled packages)

Exhaust System

Dry insulated turbocharger, water-cooled exhaust manifolds

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), keel-cooled gensets do not include the keel cooler(s)

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

Cooling System

Remote expansion tank kit (box supplied loose)

Sound Attenuation Enclosure

Aluminum-framed enclosure with zinc-plated steel panels finished in tough polyester powder coating

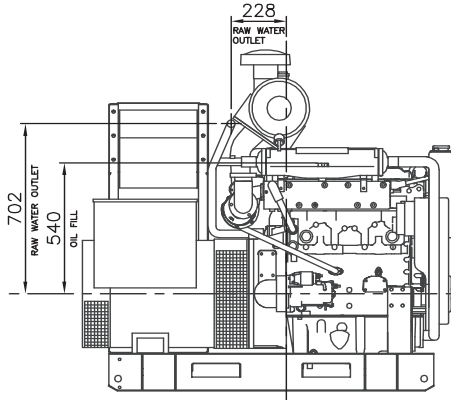
Marine Classification Society (MCS)

MCS-approved packages available direct from the factory through RINA, ABS, DNV, CCS, Lloyds, GL, and BV

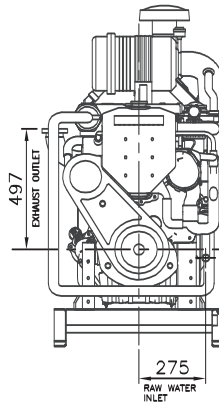
General

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

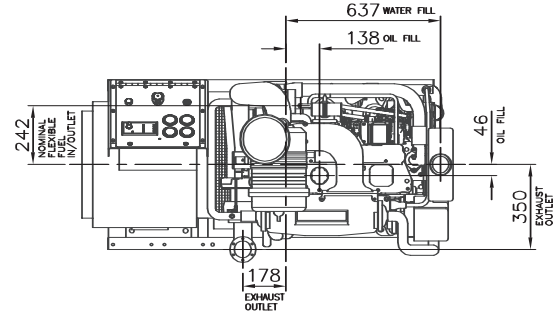
Right Side



Front



Footprint (Bottom View)



DIMENSIONS

Engine Dimensions		
	Open mm (in)	Enclosed mm (in)
Overall Length	1589 (62.56)	1750 (68.9)
Overall Height*	1132 (44.60)	1215 (47.8)
Overall Width	724 (28.54)	1000 (39.4)

*Height dimension does not include remote-mounted air filter or electronic control panel.

CATERPILLAR GENERATOR

Power Factor	1.0
Frame	C4.4
Insulation	Class H
Temperature Rise	
@ 40°C Ambient	Class H (150°K)
Winding Pitch Code	2/3
Terminals	12 lead reconnectable
Drip Proof	IP 23
Air Flow 60 Hz	0.44 m ³ /s (932 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

60 Hz DITA

Fuel Consumption		
@ Full Power	27.7 L/hour	7.32 gph

ENCLOSED SOUND DATA

50 Hz DINA

Sound levels are average sound pressure level @ 1 meter and 100% load	72.5 db(A)
---	------------

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 98 kW (123 kVA).

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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.