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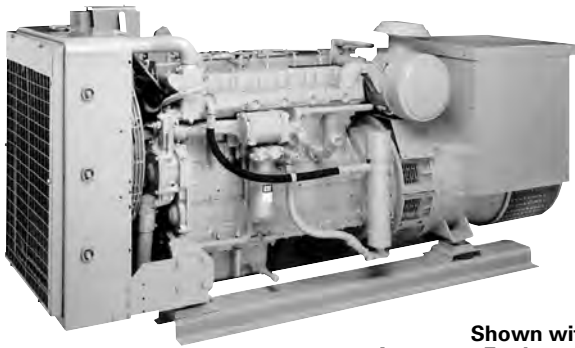


Marine Generator Set

3306B

Radiator Cooled

155 ekW (194 kVA) 50 Hz @ 1500 rpm



Shown with
Accessory Equipment

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
 Displacement 10.5 L (641 cu. in.)
 Bore 120.7 mm (4.75 in.)
 Stroke 152.4 mm (6.0 in.)
 Aspiration Turbocharged-Aftercooled
 Governor Hydra-mechanical or PSG
 Engine Weight, Net Dry (approx) 1905 kg (4200 lb)
 Capacity for Liquids
 Cooling System 25.0 L (6.6 U.S. gal)
 Lube Oil System (refill) 38.8 L (10.25 U.S. gal)
 Oil Change Interval 250 hr
 Caterpillar DEO 10W30 or 15W40
 Rotation (from flywheel end) Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Regular duty air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Engine-mounted radiator, blower fan, fan drive, fan guard, oil cooler, thermostat and housing, gear driven centrifugal jacket water pump

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 in.)

Flywheel and Flywheel Housing

SAE No. 1 (156 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

Generator and Attachments

Brushless PM excited SR4 generator, VR3 voltage regulator, 500 watt space heater

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

Lube System

Top-mounted crankcase breather, oil filter, LH oil level gauge, oil pan

Mounting System

Rails, 85 mm (3.3 in.) high with 20.5 mm (0.8 in.) mounting holes; linear vibration isolators between base and generator

Starting System

24V electric starting motor

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor

Alarm Contactor — Oil Pressure, Water Temperature

Auxiliary Drive Pulley

Digital Tachometer

Double Wall Fuel Lines and Drain

12V Electric Gauges — Oil Pressure, Water Temperature

24V or 32V Electric Gauges — Oil Pressure, Water Temperature

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

Extension Terminal Box

Fuel Ratio Control

High Capacity Radiator and Fan Drive

Hydraulic Pump Drive

Low Voltage Connections

Manual Shutoff Lever

Manual Voltage Control

Mechanical Tachometer Drive

Mechanical Overspeed Contactor

Paralleling Kit

RFI Filter

RH Oil Level Gauge

Solenoid Shutoff — 12V or 24V, ETR or ETS

Spare Parts Kit

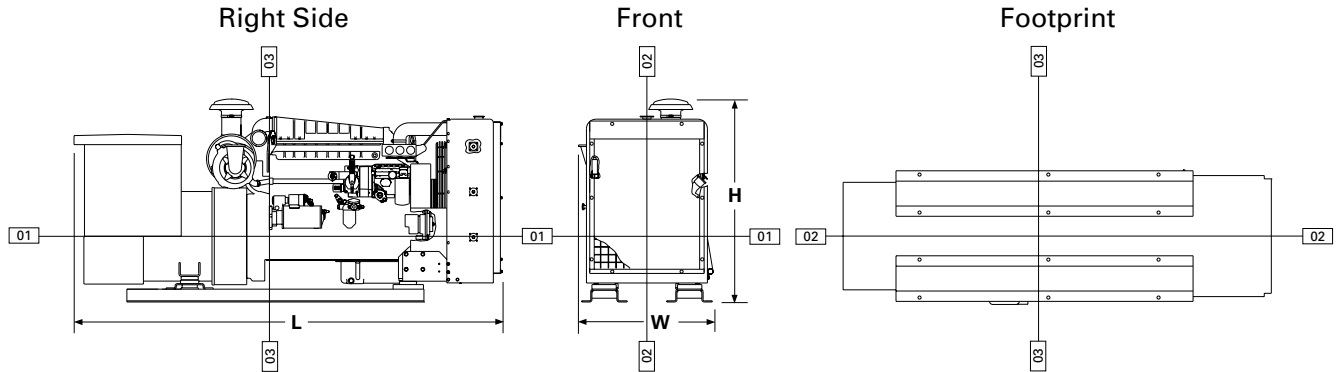
Terminal Strip Connections

PERFORMANCE DATA

Turbocharged-Aftercooled

DM4999-00

155 ekW (.8 pf) 194 kVA			
% load	ekW	Lph	gph
100	157	44.1	11.6
76	119	33.3	8.8
51	80	22.4	5.9
26	41	12.8	3.4



DIMENSIONS*

	mm	in.
Overall Length	2822.2	111.1
Length from front to rear face of block	1534.7	60.4
Length from rear face of block to back of generator	1287.5	50.7
Overall Height	1337.1	52.6
Height from crankshaft centerline to top of engine	904.4	35.6
Height from crankshaft centerline to bottom of rails	432.7	17.0
Overall Width	880.6	34.7
Width from crankshaft centerline to port side (left side)	430.1	16.9
Width from crankshaft centerline to starboard side (right side)	450.5	17.7

	Front		Center		Rear	
	mm	in.	mm	in.	mm	in.
Customer mounting hole diameter	20.5	0.8	20.5	0.8	20.5	0.8
Width from crankshaft centerline to side	155.1	6.1	155.1	6.1	155.1	6.1
Length from rear face of block to mounting holes	405.1	16.0	405.1	16.0	405.1	16.0
	790.7	31.1	64.7	2.6	784.3	30.9

*Illustrations and dimensions from drawing: 128-3812.

CATERPILLAR SR4 GENERATOR

- Type Brushless, revolving field, permanent magnet excited
- Construction Single bearing, close coupled
- Three-phase . . . 12 wire, wye or delta connected
- Insulation Class F with tropicalization and anti-abrasion
- Voltage Regulator Generator mounted, volts-per-hertz
- Voltage Regulation ±1/2%
- Voltage Gain Adjustable
- Generator Weight, Net (approx)
446 frame 809 kg (1780 lb)
- Space Heater
- Voltages Available (adjustable +10%, -5%)
50 Hz — 190-380 volts
- Meets or exceeds Marine Society requirements

RATING CONDITIONS

- Engine Performance Parameters**
- Power ±3%
- Specific Fuel Consumption ±3%
- Fuel Rate ±5%

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.

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.

TMI Reference No.: DM4999-00 (6-18-01)

Materials and specifications are subject to change without notice.

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

LEHM1664-00 (6-01)

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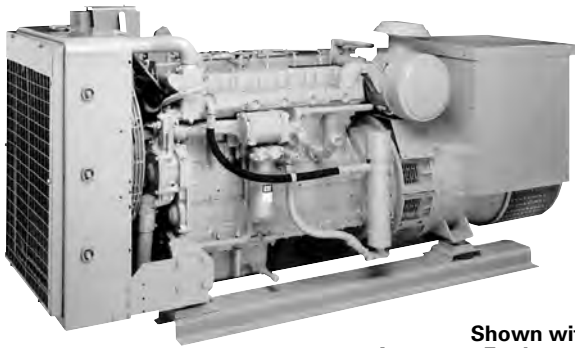


Marine Generator Set

3306B

Radiator Cooled

170 ekW (213 kVA) 60 Hz @ 1800 rpm



Shown with
Accessory Equipment

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
 Displacement 10.5 L (641 cu. in.)
 Bore 120.7 mm (4.75 in.)
 Stroke 152.4 mm (6.0 in.)
 Aspiration Turbocharged-Aftercooled
 Governor Hydra-mechanical or PSG
 Engine Weight, Net Dry (approx) 1297 kg (2860 lb)
 Capacity for Liquids
 Cooling System 25.0 L (6.6 U.S. gal)
 Lube Oil System (refill) 38.8 L (10.25 U.S. gal)
 Oil Change Interval 250 hr
 Caterpillar DEO 10W30 or 15W40
 Rotation (from flywheel end) Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Regular duty air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Engine-mounted radiator, blower fan, fan drive, fan guard, oil cooler, thermostat and housing, gear driven centrifugal jacket water pump

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 in.)

Flywheel and Flywheel Housing

SAE No. 1 (156 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

Generator and Attachments

Brushless PM excited SR4 generator, VR3 voltage regulator, 500 watt space heater

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

Lube System

Top-mounted crankcase breather, oil filter, LH oil level gauge, oil pan

Mounting System

Rails, 85 mm (3.3 in.) high with 20.5 mm (0.8 in.) mounting holes; linear vibration isolators between base and generator

Starting System

24V electric starting motor

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor

Alarm Contactor — Oil Pressure, Water Temperature

Auxiliary Drive Pulley

Digital Tachometer

Double Wall Fuel Lines and Drain

12V Electric Gauges — Oil Pressure, Water Temperature

24V or 32V Electric Gauges — Oil Pressure, Water Temperature

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

Extension Terminal Box

Fuel Ratio Control

High Capacity Radiator and Fan Drive

Hydraulic Pump Drive

Low Voltage Connections

Manual Shutoff Lever

Manual Voltage Control

Mechanical Tachometer Drive

Mechanical Overspeed Contactor

Paralleling Kit

RFI Filter

RH Oil Level Gauge

Solenoid Shutoff — 12V or 24V, ETR or ETS

Spare Parts Kit

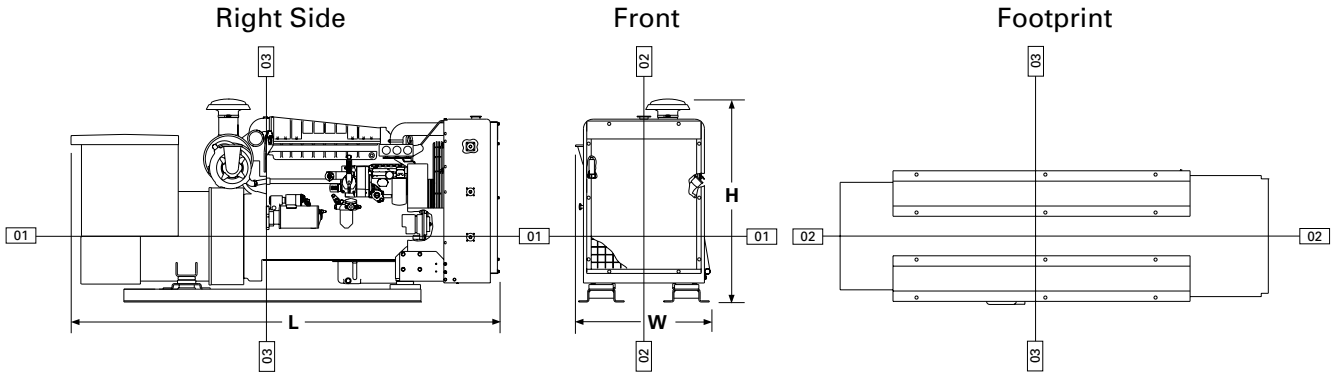
Terminal Strip Connections

PERFORMANCE DATA

Turbocharged-Aftercooled

DM4993-00

170 ekW (.8 pf) 213 kVA			
% load	ekW	Lph	gph
98	170	49.3	13.0
73	128	36.4	9.6
49	85	24.9	6.6
24	43	14.6	3.9



DIMENSIONS*

	mm	in.
Overall Length	2799.3	110.2
Length from front to rear face of block	1534.7	60.4
Length from rear face of block to back of generator	1264.6	49.8
Overall Height	1337.1	52.6
Height from crankshaft centerline to top of engine	904.4	35.6
Height from crankshaft centerline to bottom of rails	432.7	17.0
Overall Width	880.6	34.7
Width from crankshaft centerline to port side (left side)	430.1	16.9
Width from crankshaft centerline to starboard side (right side)	450.5	17.7

	Front		Center		Rear	
	mm	in.	mm	in.	mm	in.
Customer mounting hole diameter	20.5	0.8	20.5	0.8	20.5	0.8
Width from crankshaft centerline to side	155.1	6.1	155.1	6.1	155.1	6.1
Length from rear face of block to mounting holes	405.1	16.0	405.1	16.0	405.1	16.0
	790.7	31.1	64.7	2.6	784.3	30.9

*Illustrations and dimensions from drawing: 128-3812.

CATERPILLAR SR4 GENERATOR

- Type Brushless, revolving field, permanent magnet excited
- Construction Single bearing, close coupled
- Three-phase . . . 12 wire, wye or delta connected
- Insulation Class F with tropicalization and anti-abrasion
- Voltage Regulator Generator mounted, volts-per-hertz
- Voltage Regulation ±1/2%
- Voltage Gain Adjustable
- Generator Weight, Net (approx)
445 frame 750 kg (1650 lb)
- Space Heater
- Voltages Available (adjustable +10%, -5%)
60 Hz — 220-440 volts
- Meets or exceeds Marine Society requirements

RATING CONDITIONS

- Engine Performance Parameters**
- Power ±3%
 - Specific Fuel Consumption ±3%
 - Fuel Rate ±5%

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.

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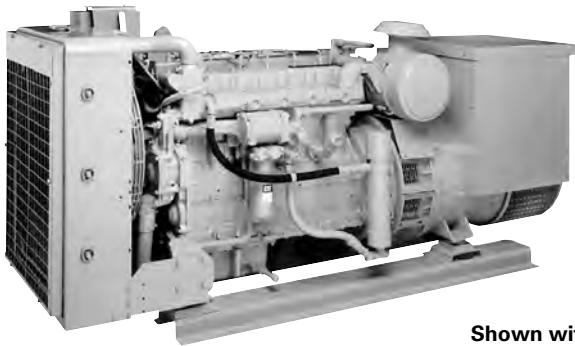


Marine Generator Set

3306B

Radiator Cooled

190 kW (238 kVA) 60 Hz @ 1800 rpm



Shown with Accessory Equipment

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
 Displacement 10.5 L (641 cu. in.)
 Bore 120.7 mm (4.75 in.)
 Stroke 152.4 mm (6.0 in.)
 Aspiration Turbocharged-Aftercooled
 Governor Hydra-mechanical or PSG
 Engine Weight, Net Dry (approx) 1987 kg (4380 lb)
 Capacity for Liquids
 Cooling System 25.0 L (6.6 U.S. gal)
 Lube Oil System (refill) 38.8 L (10.25 U.S. gal)
 Oil Change Interval 250 hr
 Caterpillar DEO 10W30 or 15W40
 Rotation (from flywheel end) Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Regular duty air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Engine-mounted radiator, blower fan, fan drive, fan guard, oil cooler, thermostat and housing, gear driven centrifugal jacket water pump

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 in.)

Flywheel and Flywheel Housing

SAE No. 1 (156 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

Generator and Attachments

Brushless PM excited SR4 generator, VR3 voltage regulator, 500 watt space heater

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

Lube System

Top-mounted crankcase breather, oil filter, LH oil level gauge, oil pan

Mounting System

Rails, 85 mm (3.3 in.) high with 20.5 mm (0.8 in.) mounting holes; linear vibration isolators between base and generator

Starting System

24V electric starting motor

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor

Alarm Contactor — Oil Pressure, Water Temperature

Auxiliary Drive Pulley

Digital Tachometer

Double Wall Fuel Lines and Drain

12V Electric Gauges — Oil Pressure, Water Temperature

24V or 32V Electric Gauges — Oil Pressure, Water Temperature

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

Extension Terminal Box

Fuel Ratio Control

High Capacity Radiator and Fan Drive

Hydraulic Pump Drive

Low Voltage Connections

Manual Shutoff Lever

Manual Voltage Control

Mechanical Tachometer Drive

Mechanical Overspeed Contactor

Paralleling Kit

RFI Filter

RH Oil Level Gauge

Solenoid Shutoff — 12V or 24V, ETR or ETS

Spare Parts Kit

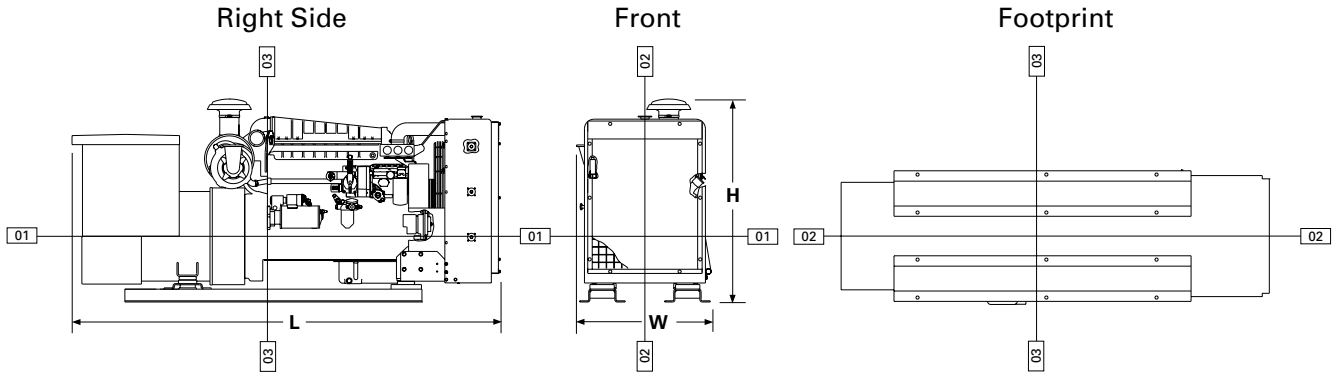
Terminal Strip Connections

PERFORMANCE DATA

Turbocharged-Aftercooled

DM4995-00

190 kW (.8 pf) 238 kVA			
% load	ekW	Lph	gph
100	194	55.0	14.5
76	146	41.8	11.0
51	99	28.7	7.6
26	51	16.8	4.4



DIMENSIONS*

	mm	in.
Overall Length	2822.2	111.1
Length from front to rear face of block	1534.7	60.4
Length from rear face of block to back of generator	1287.5	50.7
Overall Height	1337.1	52.6
Height from crankshaft centerline to top of engine	904.4	35.6
Height from crankshaft centerline to bottom of rails	432.7	17.0
Overall Width	880.6	34.7
Width from crankshaft centerline to port side (left side)	430.1	16.9
Width from crankshaft centerline to starboard side (right side)	450.5	17.7

	Front		Center		Rear	
	mm	in.	mm	in.	mm	in.
Customer mounting hole diameter	20.5	0.8	20.5	0.8	20.5	0.8
Width from crankshaft centerline to side	155.1	6.1	155.1	6.1	155.1	6.1
Length from rear face of block to mounting holes	405.1	16.0	64.7	2.6	784.3	30.9

*Illustrations and dimensions from drawing: 128-3812.

CATERPILLAR SR4 GENERATOR

- Type Brushless, revolving field, permanent magnet excited
- Construction Single bearing, close coupled
- Three-phase . . . 12 wire, wye or delta connected
- Insulation Class F with tropicalization and anti-abrasion
- Voltage Regulator Generator mounted, volts-per-hertz
- Voltage Regulation ±1/2%
- Voltage Gain Adjustable
- Generator Weight, Net (approx)
446 frame 809 kg (1780 lb)
- Space Heater
- Voltages Available (adjustable +10%, -5%)
60 Hz — 220-440 volts
- Meets or exceeds Marine Society requirements

RATING CONDITIONS

- Engine Performance Parameters**
- Power ±3%
 - Specific Fuel Consumption ±3%
 - Fuel Rate ±5%

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).

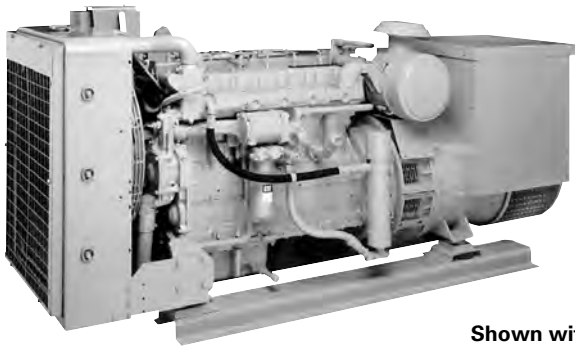
Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

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.



Marine Generator Set 3306B

145 ekW (181 kVA) 50 Hz @ 1500 rpm



Shown with Accessory Equipment

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
 Displacement 10.5 L (641 cu. in.)
 Bore 120.7 mm (4.75 in.)
 Stroke 152.4 mm (6.0 in.)
 Aspiration Turbocharged-Aftercooled
 Governor Hydra-mechanical or PSG
 Engine Weight, Net Dry (approx)
 Heat Exchanger Cooled 1649 kg (3635 lb)
 Keel Cooled 1626 kg (3585 lb)
 Capacity for Liquids
 Cooling System (engine only) . . . 15.9 L (4.2 U.S. gal)
 Lube Oil System (refill) 38.8 L (10.25 U.S. gal)
 Oil Change Interval 250 hr
 Caterpillar DEO 10W30 or 15W40
 Rotation (from flywheel end) Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Regular duty air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Gear driven, self priming, centrifugal auxiliary sea water pump with rubber impeller (heat exchanger engines); gear driven centrifugal jacket water pump; oil cooler; engine-mounted heat exchanger with removable tube bundle and replaceable copper-nickel tubes (heat exchanger engines); expansion tank; thermostat and housing

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 in.)

Flywheel and Flywheel Housing

SAE No. 1 (156 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

Generator and Attachments

Brushless PM excited SR4 generator, VR3 voltage regulator, 500 watt space heater

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

Lube System

Top-mounted crankcase breather, oil filter, LH oil level gauge, oil pan

Mounting System

Rails, 85 mm (3.3 in.) high with 20.5 mm (0.8 in.) mounting holes; linear vibration isolators between base and generator

Starting System

24V electric starting motor

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

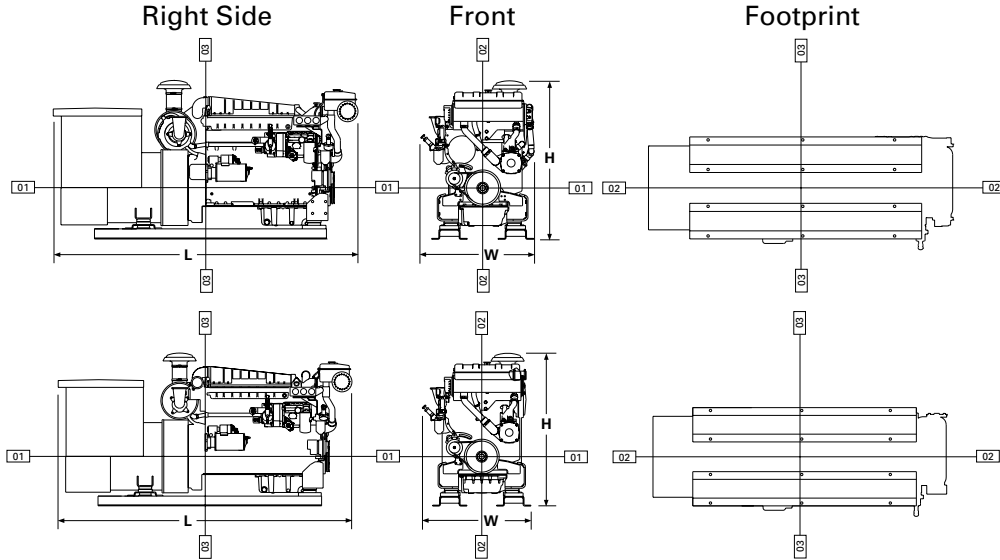
Air Starting Motor
 Alarm Contactor — Oil Pressure, Water Temperature
 Auxiliary Drive Pulley
 Digital Tachometer
 Double Wall Fuel Lines and Drain
 12V Electric Gauges — Oil Pressure, Water Temperature
 24V or 32V Electric Gauges — Oil Pressure, Water Temperature
 Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed
 Ether Starting Aid
 Exhaust Elbow, Pipe, Flexible Fittings
 Extension Terminal Box
 Fuel Ratio Control
 Hydraulic Pump Drive
 Low Voltage Connections
 Magnetic Pickup
 Manual Shutoff Lever
 Manual Voltage Control
 Mechanical Tachometer Drive
 Mechanical Overspeed Contactor
 Paralleling Kit
 RFI Filter
 RH Oil Level Gauge
 Solenoid Shutoff — 12V or 24V, ETR or ETS
 Spare Parts Kit
 Terminal Strip Connections

PERFORMANCE DATA

Turbocharged-Aftercooled

DM4998-00

145 ekW (.8 pf) 181 kVA			
% load	ekW	Lph	gph
100	145	40.6	10.7
75	109	30.4	8.0
50	73	20.4	5.4
25	36	11.7	3.1



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled			
	mm	in.	mm	in.		
Overall Length	2549.6	100.4	2549.6	100.4		
Length from front to rear face of block	1285.0	50.6	1285.0	50.6		
Length from rear face of block to back of generator	1264.6	49.8	1264.6	49.8		
Overall Height	1337.1	52.6	1337.1	52.6		
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6		
Height from crankshaft centerline to bottom of rails	432.7	17.0	432.7	17.0		
Overall Width	956.7	37.7	952.0	37.5		
Width from crankshaft centerline to port side (left side)	434.8	17.1	430.1	16.9		
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6		
	Front		Center		Rear	
	mm	in.	mm	in.	mm	in.
Customer mounting hole diameter	20.5	0.8	20.5	0.8	20.5	0.8
Width from crankshaft centerline to side	155.1	6.1	155.1	6.1	155.1	6.1
	405.1	16.0	405.1	16.0	405.1	16.0
Length from rear face of block to mounting holes	790.5	31.1	14.8	0.6	784.3	30.9

*Illustrations and dimensions from drawings: 186-4323 Heat Exchanger Cooled, 118-7823 Keel Cooled.

CATERPILLAR SR4 GENERATOR

- Type Brushless, revolving field, permanent magnet excited
- Construction Single bearing, close coupled
- Three-phase. 12 wire, wye or delta connected
- Insulation. Class F with tropicalization and anti-abrasion
- Voltage Regulator Generator mounted, volts-per-hertz
- Voltage Regulation. ±1/2%
- Voltage Gain Adjustable
- Generator Weight, Net (approx)
445 frame. 750 kg (1650 lb)
- Space Heater
- Voltages Available (adjustable +10%, -5%)
50 Hz — 190-380 volts
- Meets or exceeds Marine Society requirements

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.

TMI Reference No.: DM4998-00 (6-18-01)
Materials and specifications are subject to change without notice.
LEHM1646-00 (6-01)

RATING CONDITIONS

- Engine Performance Parameters**
- Power. ±3%
 - Specific Fuel Consumption ±3%
 - Fuel Rate. ±5%

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.

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

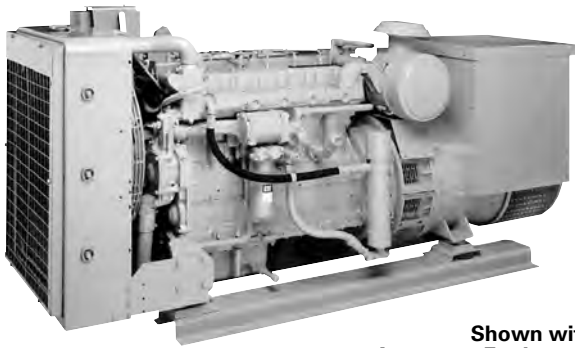
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Marine Generator Set 3306B

160 kW (200 kVA) 50 Hz @ 1500 rpm



Shown with Accessory Equipment

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

- Emissions IMO compliant
- Displacement 10.5 L (641 cu. in.)
- Bore 120.7 mm (4.75 in.)
- Stroke 152.4 mm (6.0 in.)
- Aspiration Turbocharged-Aftercooled
- Governor Hydra-mechanical or PSG
- Engine Weight, Net Dry (approx)
 - Heat Exchanger Cooled 1800 kg (3970 lb)
 - Keel Cooled 1778 kg (3920 lb)
- Capacity for Liquids
 - Cooling System (engine only) . . . 15.9 L (4.2 U.S. gal)
 - Lube Oil System (refill) 38.8 L (10.25 U.S. gal)
- Oil Change Interval 250 hr
 - Caterpillar DEO 10W30 or 15W40
- Rotation (from flywheel end) Counterclockwise

STANDARD EQUIPMENT

- Air Inlet System**
 - Regular duty air cleaner, rain cap
- Charging System**
 - 24V 35 Amp alternator
- Cooling System**
 - Gear driven, self priming, centrifugal auxiliary sea water pump with rubber impeller (heat exchanger engines); gear driven centrifugal jacket water pump; oil cooler; engine-mounted heat exchanger with removable tube bundle and replaceable copper-nickel tubes (heat exchanger engines); expansion tank; thermostat and housing
- Exhaust System**
 - Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 in.)
- Flywheel and Flywheel Housing**
 - SAE No. 1 (156 teeth)
- Fuel System**
 - Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines
- Generator and Attachments**
 - Brushless PM excited SR4 generator, VR3 voltage regulator, 500 watt space heater
- Instruments**
 - RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter
- Lube System**
 - Top-mounted crankcase breather, oil filter, LH oil level gauge, oil pan
- Mounting System**
 - Rails, 85 mm (3.3 in.) high with 20.5 mm (0.8 in.) mounting holes; linear vibration isolators between base and generator
- Starting System**
 - 24V electric starting motor
- General**
 - Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

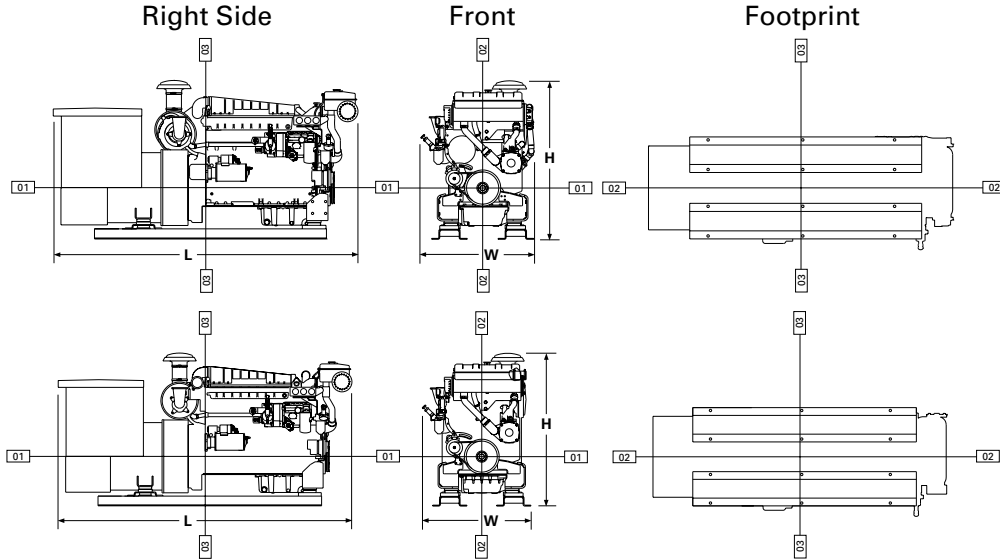
- Air Starting Motor
- Alarm Contactor — Oil Pressure, Water Temperature
- Auxiliary Drive Pulley
- Digital Tachometer
- Double Wall Fuel Lines and Drain
- 12V Electric Gauges — Oil Pressure, Water Temperature
- 24V or 32V Electric Gauges — Oil Pressure, Water Temperature
- Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed
- Ether Starting Aid
- Exhaust Elbow, Pipe, Flexible Fittings
- Extension Terminal Box
- Fuel Ratio Control
- Hydraulic Pump Drive
- Low Voltage Connections
- Magnetic Pickup
- Manual Shutoff Lever
- Manual Voltage Control
- Mechanical Tachometer Drive
- Mechanical Overspeed Contactor
- Paralleling Kit
- RFI Filter
- RH Oil Level Gauge
- Solenoid Shutoff — 12V or 24V, ETR or ETS
- Spare Parts Kit
- Terminal Strip Connections

PERFORMANCE DATA

Turbocharged-Aftercooled

DM6051-00

160 kW (.8 pf) 200 kVA			
% load	ekW	Lph	gph
100	160	44.7	11.8
75	120	33.7	8.9
50	80	22.4	5.9
25	40	12.6	3.3



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled			
	mm	in.	mm	in.		
Overall Length	2572.5	101.3	2572.5	101.3		
Length from front to rear face of block	1285.0	50.6	1285.0	50.6		
Length from rear face of block to back of generator	1287.5	50.7	1287.5	50.7		
Overall Height	1337.1	52.6	1337.1	52.6		
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6		
Height from crankshaft centerline to bottom of rails	432.7	17.0	432.7	17.0		
Overall Width	956.7	37.7	952.0	37.5		
Width from crankshaft centerline to port side (left side)	434.8	17.1	430.1	16.9		
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6		
	Front		Center		Rear	
	mm	in.	mm	in.	mm	in.
Customer mounting hole diameter	20.5	0.8	20.5	0.8	20.5	0.8
Width from crankshaft centerline to side	155.1	6.1	155.1	6.1	155.1	6.1
	405.1	16.0	405.1	16.0	405.1	16.0
Length from rear face of block to mounting holes	790.5	31.1	14.8	0.6	784.3	30.9

*Illustrations and dimensions from drawings: 186-4323 Heat Exchanger Cooled, 118-7823 Keel Cooled.

CATERPILLAR SR4 GENERATOR

- Type Brushless, revolving field, permanent magnet excited
- Construction Single bearing, close coupled
- Three-phase. 12 wire, wye or delta connected
- Insulation. Class F with tropicalization and anti-abrasion
- Voltage Regulator Generator mounted, volts-per-hertz
- Voltage Regulation. ±1/2%
- Voltage Gain Adjustable
- Generator Weight, Net (approx)
446 frame. 809 kg (1780 lb)
- Space Heater
- Voltages Available (adjustable +10%, -5%)
50 Hz — 190-380 volts
- Meets or exceeds Marine Society requirements

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.

TMI Reference No.: DM6051-00 (6-17-01)
Materials and specifications are subject to change without notice.
LEHM1645-00 (6-01)

RATING CONDITIONS

- Engine Performance Parameters**
- Power. ±3%
 - Specific Fuel Consumption ±3%
 - Fuel Rate. ±5%

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.

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

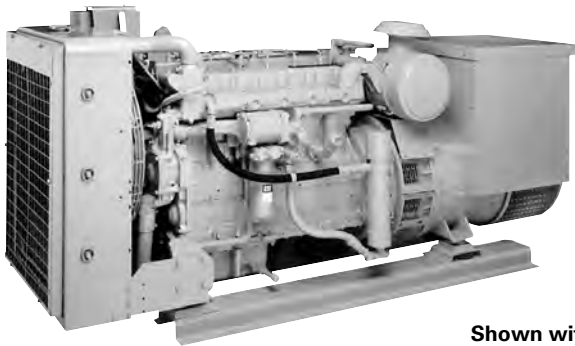
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Marine Generator Set 3306B

170 kW (213 kVA) 60 Hz @ 1800 rpm



Shown with Accessory Equipment

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
 Displacement 10.5 L (641 cu. in.)
 Bore 120.7 mm (4.75 in.)
 Stroke 152.4 mm (6.0 in.)
 Aspiration Turbocharged-Aftercooled
 Governor Hydra-mechanical or PSG
 Engine Weight, Net Dry (approx)
 Heat Exchanger Cooled 1649 kg (3635 lb)
 Keel Cooled 1626 kg (3585 lb)
 Capacity for Liquids
 Cooling System (engine only) 15.9 L (4.2 U.S. gal)
 Lube Oil System (refill) 38.8 L (10.25 U.S. gal)
 Oil Change Interval 250 hr
 Caterpillar DEO 10W30 or 15W40
 Rotation (from flywheel end) Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Regular duty air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Gear driven, self priming, centrifugal auxiliary sea water pump with rubber impeller (heat exchanger engines); gear driven centrifugal jacket water pump; oil cooler, engine-mounted heat exchanger with removable tube bundle and replaceable copper-nickel tubes (heat exchanger engines); expansion tank; thermostat and housing

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 in.)

Flywheel and Flywheel Housing

SAE No. 1 (156 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

Generator and Attachments

Brushless PM excited SR4 generator, VR3 voltage regulator, 500 watt space heater

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

Lube System

Top-mounted crankcase breather, oil filter, LH oil level gauge, oil pan

Mounting System

Rails, 85 mm (3.3 in.) high with 20.5 mm (0.8 in.) mounting holes; linear vibration isolators between base and generator

Starting System

24V electric starting motor

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

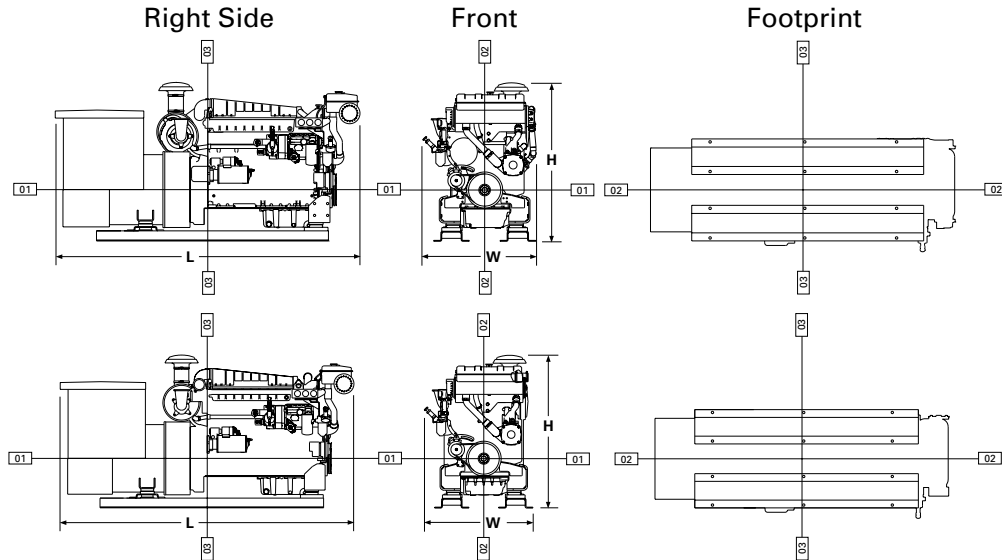
- Air Starting Motor
- Alarm Contactor — Oil Pressure, Water Temperature
- Auxiliary Drive Pulley
- Digital Tachometer
- Double Wall Fuel Lines and Drain
- 12V Electric Gauges — Oil Pressure, Water Temperature
- 24V or 32V Electric Gauges — Oil Pressure, Water Temperature
- Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed
- Ether Starting Aid
- Exhaust Elbow, Pipe, Flexible Fittings
- Extension Terminal Box
- Fuel Ratio Control
- Hydraulic Pump Drive
- Low Voltage Connections
- Magnetic Pickup
- Manual Shutoff Lever
- Manual Voltage Control
- Mechanical Tachometer Drive
- Mechanical Overspeed Contactor
- Paralleling Kit
- RFI Filter
- RH Oil Level Gauge
- Solenoid Shutoff — 12V or 24V, ETR or ETS
- Spare Parts Kit
- Terminal Strip Connections

PERFORMANCE DATA

Turbocharged-Aftercooled

DM4992-00

170 kW (.8 pf) 213 kVA			
% load	ekW	Lph	gph
100	170	48.6	12.8
75	128	36.4	9.6
50	85	24.9	6.6
25	43	14.6	3.9



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled					
	mm	in.	mm	in.				
Overall Length	2549.6	100.4	2549.6	100.4				
Length from front to rear face of block	1285.0	50.6	1285.0	50.6				
Length from rear face of block to back of generator	1264.6	49.8	1264.6	49.8				
Overall Height	1337.1	52.6	1337.1	52.6				
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6				
Height from crankshaft centerline to bottom of rails	432.7	17.0	432.7	17.0				
Overall Width	956.7	37.7	952.0	37.5				
Width from crankshaft centerline to port side (left side)	434.8	17.1	430.1	16.9				
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6				
	Front		Center		Rear			
	mm	in.	mm	in.	mm	in.		
Customer mounting hole diameter	20.5	0.8	20.5	0.8	20.5	0.8		
Width from crankshaft centerline to side	155.1	6.1	155.1	6.1	155.1	6.1		
	405.1	16.0	405.1	16.0	405.1	16.0		
Length from rear face of block to mounting holes	790.5	31.1	14.8	0.6	784.3	30.9		

*Illustrations and dimensions from drawings: 186-4323 Heat Exchanger Cooled, 118-7823 Keel Cooled.

CATERPILLAR SR4 GENERATOR

- Type Brushless, revolving field, permanent magnet excited
- Construction Single bearing, close coupled
- Three-phase. 12 wire, wye or delta connected
- Insulation. Class F with tropicalization and anti-abrasion
- Voltage Regulator Generator mounted, volts-per-hertz
- Voltage Regulation. ±1/2%
- Voltage Gain Adjustable
- Generator Weight, Net (approx)
445 frame. 750 kg (1650 lb)
- Space Heater
- Voltages Available (adjustable +10%, -5%)
60 Hz — 220-440 volts
- Meets or exceeds Marine Society requirements

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.

TMI Reference No.: DM4992-00 (6-18-01)
Materials and specifications are subject to change without notice.
LEHM1648-00 (6-01)

RATING CONDITIONS

- Engine Performance Parameters**
- Power. ±3%
 - Specific Fuel Consumption ±3%
 - Fuel Rate. ±5%

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.

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

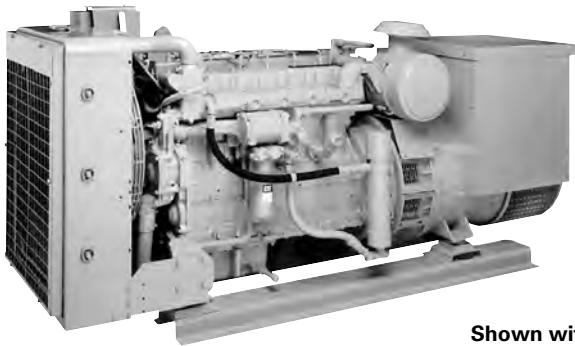
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Marine Generator Set 3306B

190 ekW (238 kVA) 60 Hz @ 1800 rpm



Shown with Accessory Equipment

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
 Displacement 10.5 L (641 cu. in.)
 Bore 120.7 mm (4.75 in.)
 Stroke 152.4 mm (6.0 in.)
 Aspiration Turbocharged-Aftercooled
 Governor Hydra-mechanical or PSG
 Engine Weight, Net Dry (approx)
 Heat Exchanger Cooled 1882 kg (4150 lb)
 Keel Cooled 1860 kg (4100 lb)
 Capacity for Liquids
 Cooling System (engine only) 15.9 L (4.2 U.S. gal)
 Lube Oil System (refill) 38.8 L (10.25 U.S. gal)
 Oil Change Interval 250 hr
 Caterpillar DEO 10W30 or 15W40
 Rotation (from flywheel end) Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Regular duty air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Gear driven, self priming, centrifugal auxiliary sea water pump with rubber impeller (heat exchanger engines); gear driven centrifugal jacket water pump; oil cooler, engine-mounted heat exchanger with removable tube bundle and replaceable copper-nickel tubes (heat exchanger engines); expansion tank; thermostat and housing

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 in.)

Flywheel and Flywheel Housing

SAE No. 1 (156 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

Generator and Attachments

Brushless PM excited SR4 generator, VR3 voltage regulator, 500 watt space heater

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

Lube System

Top-mounted crankcase breather, oil filter, LH oil level gauge, oil pan

Mounting System

Rails, 85 mm (3.3 in.) high with 20.5 mm (0.8 in.) mounting holes; linear vibration isolators between base and generator

Starting System

24V electric starting motor

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

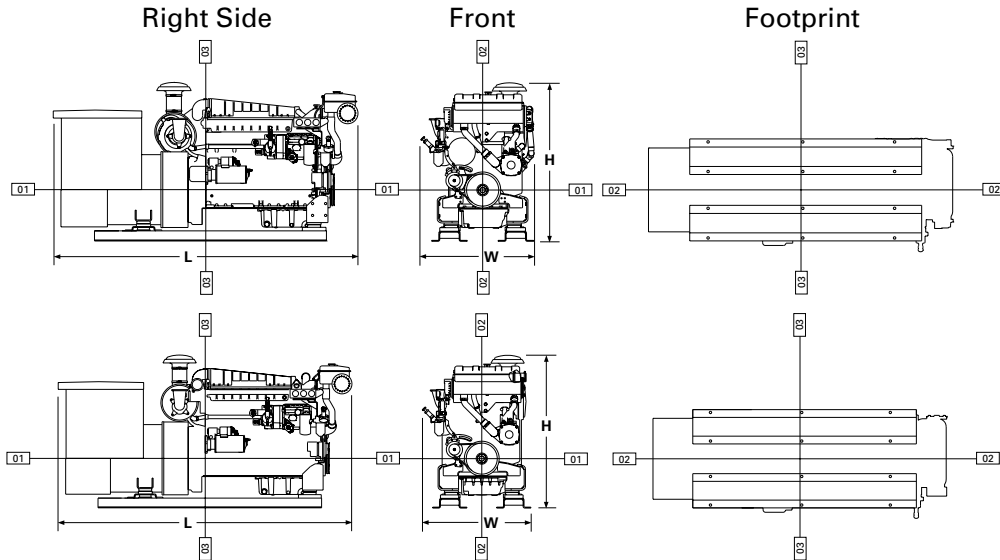
Air Starting Motor
 Alarm Contactor — Oil Pressure, Water Temperature
 Auxiliary Drive Pulley
 Digital Tachometer
 Double Wall Fuel Lines and Drain
 12V Electric Gauges — Oil Pressure, Water Temperature
 24V or 32V Electric Gauges — Oil Pressure, Water Temperature
 Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed
 Ether Starting Aid
 Exhaust Elbow, Pipe, Flexible Fittings
 Extension Terminal Box
 Fuel Ratio Control
 Hydraulic Pump Drive
 Low Voltage Connections
 Magnetic Pickup
 Manual Shutoff Lever
 Manual Voltage Control
 Mechanical Tachometer Drive
 Mechanical Overspeed Contactor
 Paralleling Kit
 RFI Filter
 RH Oil Level Gauge
 Solenoid Shutoff — 12V or 24V, ETR or ETS
 Spare Parts Kit
 Terminal Strip Connections

PERFORMANCE DATA

Turbocharged-Aftercooled

DM4994-00

190 ekW (.8 pf) 238 kVA			
% load	ekW	Lph	gph
100	190	54.0	14.3
75	143	40.7	10.8
50	95	27.6	7.3
25	48	15.8	4.2



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled					
	mm	in.	mm	in.				
Overall Length	2572.5	101.3	2572.5	101.3				
Length from front to rear face of block	1285.0	50.6	1285.0	50.6				
Length from rear face of block to back of generator	1287.5	50.7	1287.5	50.7				
Overall Height	1337.1	52.6	1337.1	52.6				
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6				
Height from crankshaft centerline to bottom of rails	432.7	17.0	432.7	17.0				
Overall Width	956.7	37.7	952.0	37.5				
Width from crankshaft centerline to port side (left side)	434.8	17.1	430.1	16.9				
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6				
	Front		Center		Rear			
	mm	in.	mm	in.	mm	in.		
Customer mounting hole diameter	20.5	0.8	20.5	0.8	20.5	0.8		
Width from crankshaft centerline to side	155.1	6.1	155.1	6.1	155.1	6.1		
	405.1	16.0	405.1	16.0	405.1	16.0		
Length from rear face of block to mounting holes	790.5	31.1	14.8	0.6	784.3	30.9		

*Illustrations and dimensions from drawings: 186-4323 Heat Exchanger Cooled, 118-7823 Keel Cooled.

CATERPILLAR SR4 GENERATOR

- Type Brushless, revolving field, permanent magnet excited
- Construction Single bearing, close coupled
- Three-phase. 12 wire, wye or delta connected
- Insulation. Class F with tropicalization and anti-abrasion
- Voltage Regulator Generator mounted, volts-per-hertz
- Voltage Regulation. ±1/2%
- Voltage Gain Adjustable
- Generator Weight, Net (approx)
446 frame. 809 kg (1780 lb)
- Space Heater
- Voltages Available (adjustable +10%, -5%)
60 Hz — 220-440 volts
- Meets or exceeds Marine Society requirements

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.

TMI Reference No.: DM4994-00 (6-18-01)
Materials and specifications are subject to change without notice.
LEHM1647-00 (6-01)

RATING CONDITIONS

- Engine Performance Parameters**
- Power. ±3%
 - Specific Fuel Consumption ±3%
 - Fuel Rate. ±5%

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.

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

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