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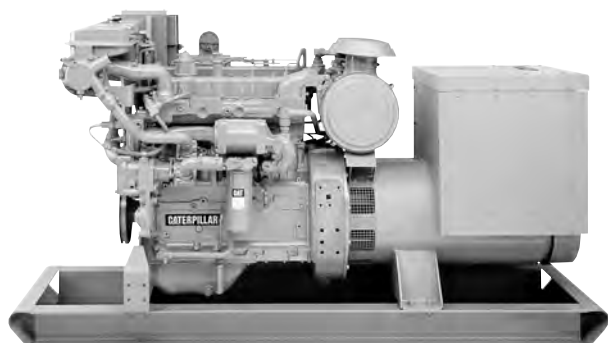
SHOP NOW



Marine Generator Set

3304B

85 ekW (106 kVA) 50 Hz @ 1500 rpm



Shown with
Accessory Equipment

STANDARD EQUIPMENT

Air Inlet System

Regular duty single stage air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Gear driven self priming centrifugal auxiliary 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, 102 mm (4 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

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

Supports

Starting System

24 Volt electric starting motor

General

Caterpillar yellow paint, lifting eyes

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Emissions IMO compliant

Displacement 7.0 L (425 cu. in.)

Bore 121 mm (4.75 in.)

Stroke 152 mm (6.0 in.)

Aspiration Turbocharged

Governor Hydra-mechanical or PSG

Engine Weight, Net Dry (approx)

Heat Exchanger Cooled 1356 kg (2990 lb)

Keel Cooled 1334 kg (2940 lb)

Capacity for Liquids

Cooling System (engine only) . . . 13 L (3.5 U.S. gal)

Lube Oil System (refill) 22 L (5.7 U.S. gal)

Oil Change Interval 250 hr

Caterpillar DEO 10W30 or 15W40

Rotation (from flywheel end) Counterclockwise

ACCESSORY EQUIPMENT

Air Starting Motor

Alarm Contactor — Oil Pressure, Water Temperature
12V 51 Amp, 24V 35 Amp or 60 Amp Alternator

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 Temp.

Electric Shutoffs — Oil Pressure, Water Temperature,
Overspeed

12V Electric Starting Motor

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

Extension Terminal Box

Fuel Ratio Control

Hydraulic Pump Drive and Adapter

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

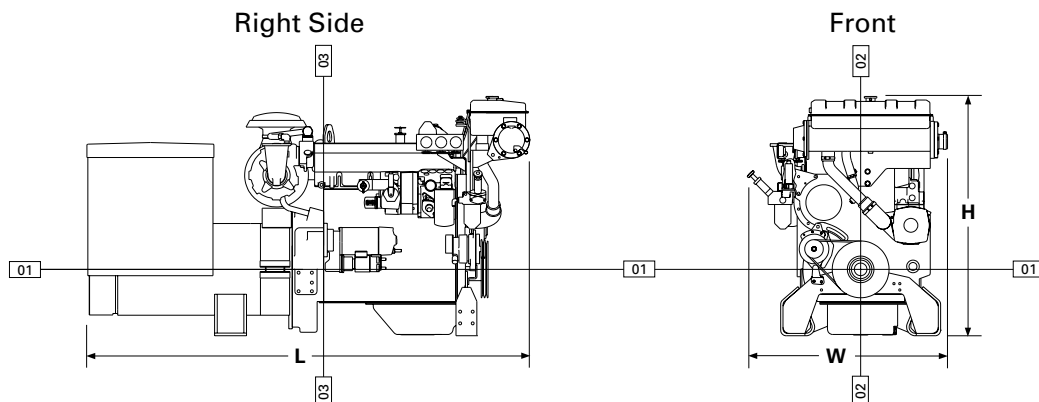
Terminal Strip Connections

PERFORMANCE DATA

Turbocharged

TM8322-01

85 ekW (.8 pf) 106 kVA			
% load	ekW	Lph	gph
100	85	26.7	7.1
71	60	18.7	4.9
47	40	13.3	3.5
24	20	8.3	2.2



DIMENSIONS*

	mm	in.
Overall Length	2118.5	83.4
Length from front to rear face of block	986.6	38.8
Length from rear face of block to back of generator	1131.9	44.6
Overall Height	1145.2	45.1
Height from crankshaft centerline to top of engine	827.7	32.6
Height from crankshaft centerline to bottom of rails	317.5	12.5
Overall Width	917.7	36.1
Width from crankshaft centerline to port side (left side)	374.9	14.8
Width from crankshaft centerline to starboard side (right side)	542.8	21.4

Customer mounting hole diameter
 Width from crankshaft centerline to side
 Length from rear face of block to mounting holes

Front		Rear	
mm	in.	mm	in.
17.5	0.7	22.5	0.9
285.8	11.3	285.8	11.3
		407.1	16.0
		483.3	19.0

*Illustrations and dimensions from drawing: 118-7826.

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 $\pm 1/2\%$
 Voltage Gain Adjustable
 Generator Weight, Net (approx)
 368 frame 511 kg (1127 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 $\pm 3\%$
 Specific Fuel Consumption $\pm 3\%$
 Fuel Rate $\pm 5\%$

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.: TM8322-01 (6-15-01)

Materials and specifications are subject to change without notice.

LEHM1532-00 (6-01)

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

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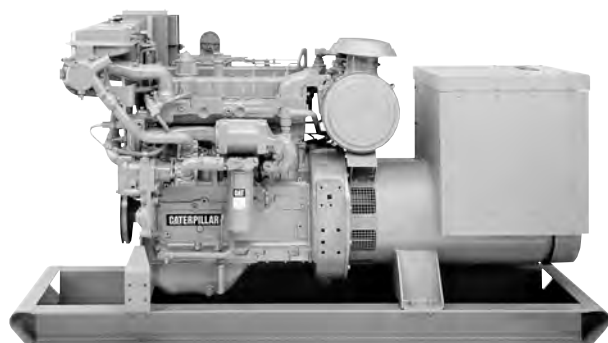
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Marine Generator Set

3304B

105 kW (131 kVA) 60 Hz @ 1800 rpm



Shown with
Accessory Equipment

STANDARD EQUIPMENT

Air Inlet System

Regular duty single stage air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

Gear driven self priming centrifugal auxiliary 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, 102 mm (4 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

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

Supports

Starting System

24 Volt electric starting motor

General

Caterpillar yellow paint, lifting eyes

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Emissions IMO compliant

Displacement 7.0 L (425 cu. in.)

Bore 121 mm (4.75 in.)

Stroke 152 mm (6.0 in.)

Aspiration Turbocharged

Governor Hydra-mechanical or PSG

Engine Weight, Net Dry (approx)

Heat Exchanger Cooled 1356 kg (2990 lb)

Keel Cooled 1334 kg (2940 lb)

Capacity for Liquids

Cooling System (engine only) . . . 13 L (3.5 U.S. gal)

Lube Oil System (refill) 22 L (5.7 U.S. gal)

Oil Change Interval 250 hr

Caterpillar DEO 10W30 or 15W40

Rotation (from flywheel end) Counterclockwise

ACCESSORY EQUIPMENT

Air Starting Motor

Alarm Contactor — Oil Pressure, Water Temperature

12V 51 Amp, 24V 35 Amp or 60 Amp Alternator

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 Temp.

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

12V Electric Starting Motor

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

Extension Terminal Box

Fuel Ratio Control

Hydraulic Pump Drive and Adapter

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

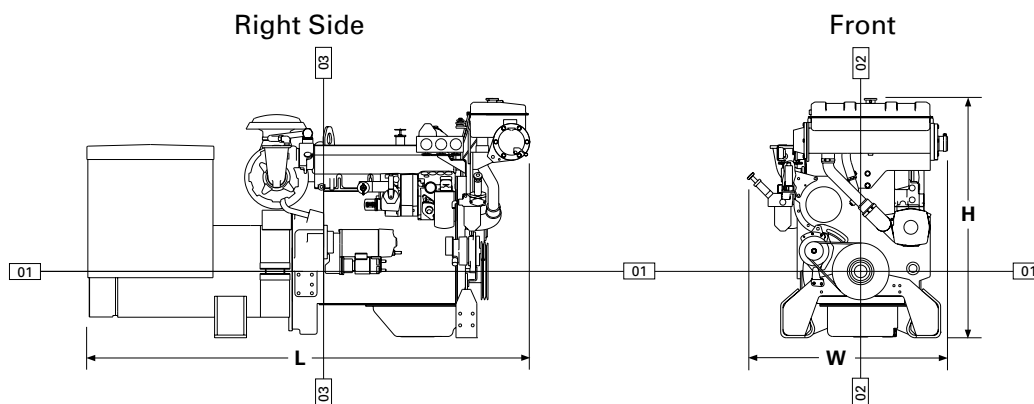
Terminal Strip Connections

PERFORMANCE DATA

Turbocharged

TM7786-01

105 kW (.8 pf) 131 kVA			
% load	ekW	Lph	gph
100	105	33.0	8.7
76	80	25.1	6.6
48	50	16.9	4.5
29	30	11.9	3.1



DIMENSIONS*

	mm	in.
Overall Length	2118.5	83.4
Length from front to rear face of block	986.6	38.8
Length from rear face of block to back of generator	1131.9	44.6
Overall Height	1145.2	45.1
Height from crankshaft centerline to top of engine	827.7	32.6
Height from crankshaft centerline to bottom of rails	317.5	12.5
Overall Width	917.7	36.1
Width from crankshaft centerline to port side (left side)	374.9	14.8
Width from crankshaft centerline to starboard side (right side)	542.8	21.4

Customer mounting hole diameter
Width from crankshaft centerline to side
Length from rear face of block to mounting holes

Front		Rear	
mm	in.	mm	in.
17.5	0.7	22.5	0.9
285.8	11.3	285.8	11.3
		407.1	16.0
		483.3	19.0

*Illustrations and dimensions from drawing: 118-7826.

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 $\pm 1/2\%$
Voltage Gain Adjustable
Generator Weight, Net (approx)
368 frame 511 kg (1127 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 $\pm 3\%$
Specific Fuel Consumption $\pm 3\%$
Fuel Rate $\pm 5\%$

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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TMI Reference No.: TM7786-01 (6-15-01)

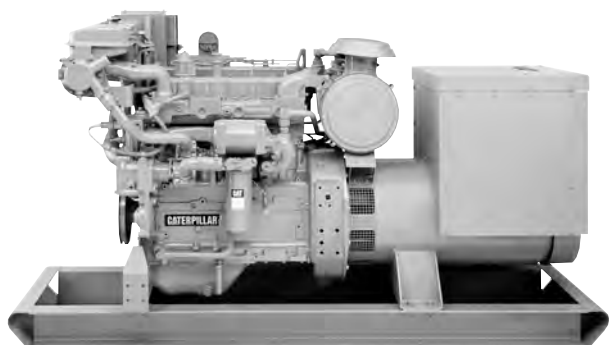
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The International System of Units (SI) is used in this publication.

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Shown with
Accessory Equipment;
Radiator Not Shown

STANDARD EQUIPMENT

Air Inlet System

Regular duty single stage 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, 102 mm (4 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

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

Mounting System

Supports, narrow base

Starting System

24 Volt electric starting motor

General

Caterpillar yellow paint, lifting eyes

Marine Generator Set

Radiator Cooled

85 ekW (106 kVA) 50 Hz @ 1500 rpm

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
Displacement 7.0 L (425 cu. in.)
Bore 121 mm (4.75 in.)
Stroke 152 mm (6.0 in.)
Aspiration Turbocharged
Governor Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) 1406 kg (3100 lb)
Capacity for Liquids
Cooling System
(engine & radiator) 32 L (8.5 U.S. gal)
Lube Oil System (refill) 22 L (5.75 U.S. gal)
Oil Change Interval 250 hr
Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) Counterclockwise

ACCESSORY EQUIPMENT

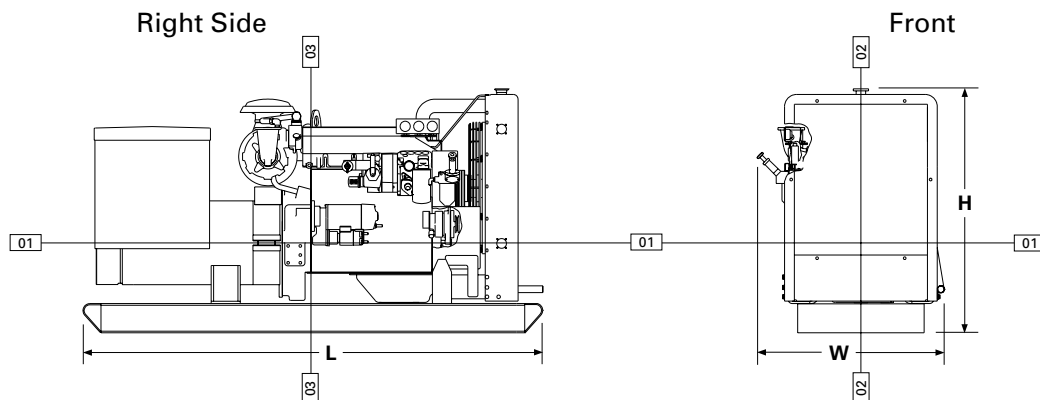
Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
24V 60 Amp Alternator
Auxiliary Drive Pulley
Digital Tachometer
Double Wall Fuel Lines and Drain
12V Electric Gauges — Oil Pressure, Water Temperature
24V or 32V Electric Gauges — Oil Pressure, Water Temp.
Electric Shutoffs — Oil Pressure, Water Temp., Overspeed
12V Electric Starting Motor
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
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Overspeed Contactor
Mechanical Tachometer Drive
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

DM4055-00

85 ekW (.8 pf) 106 kVA			
% load	ekW	Lph	gph
100	87	27.5	7.3
76	66	20.3	5.4
51	45	14.3	3.8
27	23	9.0	2.4



DIMENSIONS*

	mm	in.
Overall Length	2400.0	94.5
Length from front to rear face of block	1080.8	42.6
Length from rear face of block to back of generator	1131.9	44.6
Overall Height	1273.5	50.1
Height from crankshaft centerline to top of engine	803.5	31.6
Height from crankshaft centerline to bottom of rails	470.0	18.5
Overall Width	979.4	38.6
Width from crankshaft centerline to port side (left side)	436.6	17.2
Width from crankshaft centerline to starboard side (right side)	542.8	21.4

Customer mounting hole diameter	
Width from crankshaft centerline to side	
Length from rear face of block to mounting hole	

Front		Rear	
mm	in.	mm	in.
		20.5	0.8
		302.3	11.9
678.5	26.7	445.5	17.5

*Illustrations and dimensions from drawing: 128-3807.

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)	
368 frame	511 kg (1127 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.

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TMI Reference No.: DM4055-00 (6-15-01)

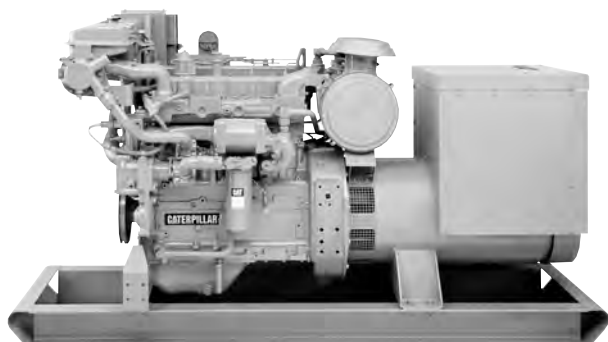
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Shown with
Accessory Equipment;
Radiator Not Shown

STANDARD EQUIPMENT

Air Inlet System

Regular duty single stage 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, 102 mm (4 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

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

Mounting System

Supports, narrow base

Starting System

24 Volt electric starting motor

General

Caterpillar yellow paint, lifting eyes

Marine Generator Set

Radiator Cooled

105 ekW (131 kVA) 60 Hz @ 1800 rpm

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
Displacement 7.0 L (425 cu. in.)
Bore 121 mm (4.75 in.)
Stroke 152 mm (6.0 in.)
Aspiration Turbocharged
Governor Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) 1406 kg (3100 lb)
Capacity for Liquids
Cooling System
(engine & radiator) 32 L (8.5 U.S. gal)
Lube Oil System (refill) 22 L (5.75 U.S. gal)
Oil Change Interval 250 hr
Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) Counterclockwise

ACCESSORY EQUIPMENT

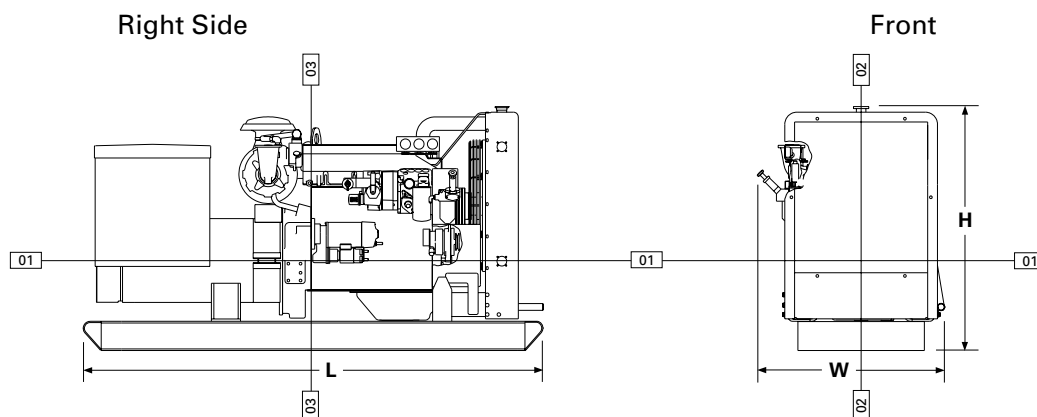
Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
24V 60 Amp Alternator
Auxiliary Drive Pulley
Digital Tachometer
Double Wall Fuel Lines and Drain
12V Electric Gauges — Oil Pressure, Water Temperature
24V or 32V Electric Gauges — Oil Pressure, Water Temp.
Electric Shutoff — Oil Pressure, Water Temp., Overspeed
12V Electric Starting Motor
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
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Overspeed Contactor
Mechanical Tachometer Drive
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

DM4056-00

105 ekW (.8 pf) 131 kVA			
% load	ekW	Lph	gph
94	102	35.8	9.5
74	80	25.0	6.6
53	58	19.0	5.0
23	25	10.8	2.9



DIMENSIONS*

	mm	in.
Overall Length	2400.0	94.5
Length from front to rear face of block	1080.8	42.6
Length from rear face of block to back of generator	1131.9	44.6
Overall Height	1273.5	50.1
Height from crankshaft centerline to top of engine	803.5	31.6
Height from crankshaft centerline to bottom of rails	470.0	18.5
Overall Width	979.4	38.6
Width from crankshaft centerline to port side (left side)	436.6	17.2
Width from crankshaft centerline to starboard side (right side)	542.8	21.3

Customer mounting hole diameter		
Width from crankshaft centerline to side		
Length from rear face of block to mounting hole	678.5	26.7

Front		Rear	
mm	in.	mm	in.
		20.5	0.8
		302.3	11.9
		445.5	17.5

*Illustrations and dimensions from drawing: 128-3807.

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)	
368 frame	511 kg (1127 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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TMI Reference No.: DM4056-00 (6-15-01)

Materials and specifications are subject to change without notice.

LEHM1543-00 (6-01)

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