**Marine Generator Set**

**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**
- **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**

<table>
<thead>
<tr>
<th>% load</th>
<th>ekW</th>
<th>Lph</th>
<th>gph</th>
</tr>
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<tr>
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<tr>
<td>26</td>
<td>41</td>
<td>12.8</td>
<td>3.4</td>
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</table>

**DM4999-00**
### 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.

---

**CATERPILLAR SR4 GENERATOR**

- **Type**: Brushless, revolving field, permanent magnet excited
- **Construction**: Single bearing, close coupled
- **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)**: 809 kg (1780 lb)
- **Space Heater**
- **Voltages Available (adjustable)**: +10%, -5%
- **Meets or exceeds Marine Society requirements**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Overall Length</th>
<th>mm</th>
<th>in.</th>
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<tr>
<td>Length from front to rear face of block</td>
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<td>Length from rear face of block to back of generator</td>
<td>1534.7</td>
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<td>Overall Height</td>
<td>1337.1</td>
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<tr>
<td>Height from crankshaft centerline to top of engine</td>
<td>904.4</td>
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<tr>
<td>Height from crankshaft centerline to bottom of rails</td>
<td>432.7</td>
<td>17.0</td>
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<td>Overall Width</td>
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<tr>
<td>Width from crankshaft centerline to port side (left side)</td>
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<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>450.5</td>
<td>17.7</td>
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Materials and specifications are subject to change without notice. 

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Marine Generator Set

**3306B**

**Radiator Cooled**

**170 ekW (213 kVA) 60 Hz @ 1800 rpm**

**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**
- **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**

<table>
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<th>gph</th>
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<td>24</td>
<td>43</td>
<td>14.6</td>
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**3306B MARINE GENERATOR SET — 170 ekW (213 kVA)**

### DIMENSIONS*

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<td>Length from rear face of block to back of generator</td>
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<tr>
<td>Overall Height</td>
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<td>52.6</td>
</tr>
<tr>
<td>Height from crankshaft centerline to top of engine</td>
<td>904.4</td>
<td>35.6</td>
</tr>
<tr>
<td>Height from crankshaft centerline to bottom of rails</td>
<td>432.7</td>
<td>17.0</td>
</tr>
<tr>
<td>Overall Width</td>
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<td>34.7</td>
</tr>
<tr>
<td>Width from crankshaft centerline to port side (left side)</td>
<td>430.1</td>
<td>16.9</td>
</tr>
<tr>
<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>450.5</td>
<td>17.7</td>
</tr>
</tbody>
</table>

*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.

---

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.: DM4993-00 (6-18-01)

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**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**
- **Manifold 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**

<table>
<thead>
<tr>
<th>% load</th>
<th>ekW</th>
<th>Lph</th>
<th>gph</th>
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<tr>
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</tr>
<tr>
<td>26</td>
<td>51</td>
<td>16.8</td>
<td>4.4</td>
</tr>
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</table>

Turbocharged-Aftercooled

DM4995-00

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**Marine Generator Set 3306B**

Radiator Cooled

190 ekW (238 kVA) 60 Hz @ 1800 rpm

**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

---

**Shown with Accessory Equipment**
**DIMENSIONS**

<table>
<thead>
<tr>
<th>Measurement Description</th>
<th>mm</th>
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<tbody>
<tr>
<td>Overall Length</td>
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<tr>
<td>Length from front to rear face of block</td>
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<tr>
<td>Length from rear face of block to back of generator</td>
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<tr>
<td>Overall Height</td>
<td>1337.1</td>
<td>52.6</td>
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<tr>
<td>Height from crankshaft centerline to top of engine</td>
<td>904.4</td>
<td>35.6</td>
</tr>
<tr>
<td>Height from crankshaft centerline to bottom of rails</td>
<td>432.7</td>
<td>17.0</td>
</tr>
<tr>
<td>Overall Width</td>
<td>880.6</td>
<td>34.7</td>
</tr>
<tr>
<td>Width from crankshaft centerline to port side (left side)</td>
<td>430.1</td>
<td>16.9</td>
</tr>
<tr>
<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>450.5</td>
<td>17.7</td>
</tr>
</tbody>
</table>

Customer mounting hole diameter: 20.5 mm (0.8 in.)

Width from crankshaft centerline to side: 155.1 mm (6.1 in.)

Length from rear face of block to mounting holes: 790.7 mm (31.1 in.)

*Illustrations and dimensions from drawing: 128-3812.

**CATERPILLAR SR4 GENERATOR**

- **Type**: Brushless, revolving field, permanent magnet excited
- **Construction**: Single bearing, close coupled
- **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)**: 809 kg (1780 lb)
- **Space Heater**: Not specified
- **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.

TMI Reference No.: DM4999-00 (6-18-01)
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Printed in U.S.A.
Marine Generator Set 3306B

145 ekW (181 kVA) 50 Hz @ 1500 rpm

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

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<th>% load</th>
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<th>gph</th>
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<td>25</td>
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</tbody>
</table>
3306B MARINE GENERATOR SET — 145 ekW (181 kVA)

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.

CATERPILLAR SR4 GENERATOR

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)
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DIMENSIONS*

<table>
<thead>
<tr>
<th></th>
<th>Heat Exchanger Cooled</th>
<th>Keel Cooled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length</td>
<td>2549.6 100.4</td>
<td>2549.6 100.4</td>
</tr>
<tr>
<td>Length from front to rear face of block</td>
<td>1285.0 50.6</td>
<td>1285.0 50.6</td>
</tr>
<tr>
<td>Length from rear face of block to back of generator</td>
<td>1264.6 49.8</td>
<td>1264.6 49.8</td>
</tr>
<tr>
<td>Overall Height</td>
<td>1337.1 52.6</td>
<td>1337.1 52.6</td>
</tr>
<tr>
<td>Height from crankshaft centerline to top of engine</td>
<td>904.4 35.6</td>
<td>904.4 35.6</td>
</tr>
<tr>
<td>Height from crankshaft centerline to bottom of rails</td>
<td>432.7 17.0</td>
<td>432.7 17.0</td>
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<tr>
<td>Overall Width</td>
<td>956.7 37.7</td>
<td>952.0 37.5</td>
</tr>
<tr>
<td>Width from crankshaft centerline to port side (left side)</td>
<td>434.8 17.1</td>
<td>430.1 16.9</td>
</tr>
<tr>
<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>521.9 20.6</td>
<td>521.9 20.6</td>
</tr>
</tbody>
</table>

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

*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

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Marine Generator Set

3306B

160 ekW (200 kVA) 50 Hz @ 1500 rpm

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) ........ Counter clockwise

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

% 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
RATING CONDITIONS

**Engine Performance Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>+3%</td>
</tr>
<tr>
<td>Specific Fuel Consumption</td>
<td>+3%</td>
</tr>
<tr>
<td>Fuel Rate</td>
<td>+5%</td>
</tr>
</tbody>
</table>

**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.

**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**: Customers mounting hole diameter
- **Width from crankshaft centerline to side**
- **Length from rear face of block to mounting holes**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Heat Exchanger Cooled</th>
<th>Keel Cooled</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Overall Length</strong></td>
<td>2572.5 in.</td>
</tr>
<tr>
<td>Length from front to rear face of block</td>
<td>1285.0 in.</td>
</tr>
<tr>
<td>Length from rear face of block to back of generator</td>
<td>1287.5 in.</td>
</tr>
<tr>
<td><strong>Overall Height</strong></td>
<td>1337.1 in.</td>
</tr>
<tr>
<td>Height from crankshaft centerline to top of engine</td>
<td>904.4 in.</td>
</tr>
<tr>
<td>Height from crankshaft centerline to bottom of rails</td>
<td>432.7 in.</td>
</tr>
<tr>
<td><strong>Overall Width</strong></td>
<td>956.7 in.</td>
</tr>
<tr>
<td>Width from crankshaft centerline to port side (left side)</td>
<td>434.8 in.</td>
</tr>
<tr>
<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>521.9 in.</td>
</tr>
</tbody>
</table>

**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

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Front</th>
<th>Center</th>
<th>Rear</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>mm</strong></td>
<td><strong>in.</strong></td>
<td><strong>mm</strong></td>
</tr>
<tr>
<td>20.5</td>
<td>0.8</td>
<td>20.5</td>
</tr>
<tr>
<td>155.1</td>
<td>6.1</td>
<td>155.1</td>
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<tr>
<td>405.1</td>
<td>16.0</td>
<td>405.1</td>
</tr>
<tr>
<td>790.5</td>
<td>31.1</td>
<td>14.8</td>
</tr>
</tbody>
</table>

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

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

Marine Generator Set 3306B

170 ekW (213 kVA) 60 Hz @ 1800 rpm

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

<table>
<thead>
<tr>
<th>% load</th>
<th>170 ekW (.8 pf) 213 kVA</th>
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</thead>
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<tr>
<td></td>
<td>ekW</td>
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<tr>
<td>100</td>
<td>170</td>
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<tr>
<td>75</td>
<td>128</td>
</tr>
<tr>
<td>50</td>
<td>85</td>
</tr>
<tr>
<td>25</td>
<td>43</td>
</tr>
</tbody>
</table>
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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**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

---

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Heat Exchanger Cooled</th>
<th>Keel Cooled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Length mm</td>
<td>mm</td>
</tr>
<tr>
<td>2549.6</td>
<td>2549.6</td>
</tr>
<tr>
<td>Length from front to rear face of block mm</td>
<td>mm</td>
</tr>
<tr>
<td>1285.0</td>
<td>1285.0</td>
</tr>
<tr>
<td>Length from rear face of block to back of generator mm</td>
<td>mm</td>
</tr>
<tr>
<td>1264.6</td>
<td>1264.6</td>
</tr>
<tr>
<td>Overall Height mm</td>
<td>mm</td>
</tr>
<tr>
<td>1337.1</td>
<td>1337.1</td>
</tr>
<tr>
<td>Height from crankshaft centerline to top of engine mm</td>
<td>mm</td>
</tr>
<tr>
<td>904.4</td>
<td>904.4</td>
</tr>
<tr>
<td>Height from crankshaft centerline to bottom of rails mm</td>
<td>mm</td>
</tr>
<tr>
<td>432.7</td>
<td>432.7</td>
</tr>
<tr>
<td>Overall Width mm</td>
<td>mm</td>
</tr>
<tr>
<td>956.7</td>
<td>952.0</td>
</tr>
<tr>
<td>Width from crankshaft centerline to port side (left side) mm</td>
<td>mm</td>
</tr>
<tr>
<td>434.8</td>
<td>430.1</td>
</tr>
<tr>
<td>Width from crankshaft centerline to starboard side (right side) mm</td>
<td>mm</td>
</tr>
<tr>
<td>521.9</td>
<td>520.6</td>
</tr>
</tbody>
</table>

**Customer mounting hole diameter**
- Front mm |
| 20.5 |
- Center mm |
| 20.5 |
- Rear mm |
| 20.5 |

**Width from crankshaft centerline to side**
- Front mm |
| 155.1 |
- Center mm |
| 155.1 |
- Rear mm |
| 155.1 |

**Length from rear face of block to mounting holes**
- Front mm |
| 405.1 |
- Center mm |
| 405.1 |
- Rear mm |
| 405.1 |

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LEHM1648-00 (6-01)

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

I-6, 4-Stroke-Cycle-Diesel

<table>
<thead>
<tr>
<th>Emissions</th>
<th>IMO compliant</th>
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</thead>
<tbody>
<tr>
<td>Displacement</td>
<td>10.5 L (641 cu. in.)</td>
</tr>
<tr>
<td>Bore</td>
<td>120.7 mm (4.75 in.)</td>
</tr>
<tr>
<td>Stroke</td>
<td>152.4 mm (6.0 in.)</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged-Aftercooled</td>
</tr>
<tr>
<td>Governor</td>
<td>Hydra-mechanical or PSG</td>
</tr>
</tbody>
</table>

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

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

Low Voltage Connections
- 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
- Magnetic Pickup

Manual Shutoff Lever
- Manual Voltage Control

Mechanical Tachometer Drive
- Mechanical Overspeed Contactor

Paralleling Kit
- Mechanical Overspeed Contactor

RFI Filter
- RH Oil Level Gauge

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

Spare Parts Kit
- Terminal Strip Connections

PERFORMANCE DATA

<table>
<thead>
<tr>
<th>% load</th>
<th>190 ekW (.8 pf) 238 kVA</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>190</td>
</tr>
<tr>
<td>75</td>
<td>143</td>
</tr>
<tr>
<td>50</td>
<td>95</td>
</tr>
<tr>
<td>25</td>
<td>48</td>
</tr>
</tbody>
</table>

Turbocharged-Aftercooled

DM4994-00

190 ekW (238 kVA) 60 Hz @ 1800 rpm

Shown with Accessory Equipment
**RATING CONDITIONS**

**Engine Performance Parameters**

- **Power**
  - 190 kW (254 hp)
  - +3%

- **Specific Fuel Consumption**
  - 238 kVA
  - +3%

- **Fuel Rate**
  - 5%

**Ratings**
- 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**
- 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**
- 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.

**Materials and specifications**
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