

50 Hz, 1500 rpm

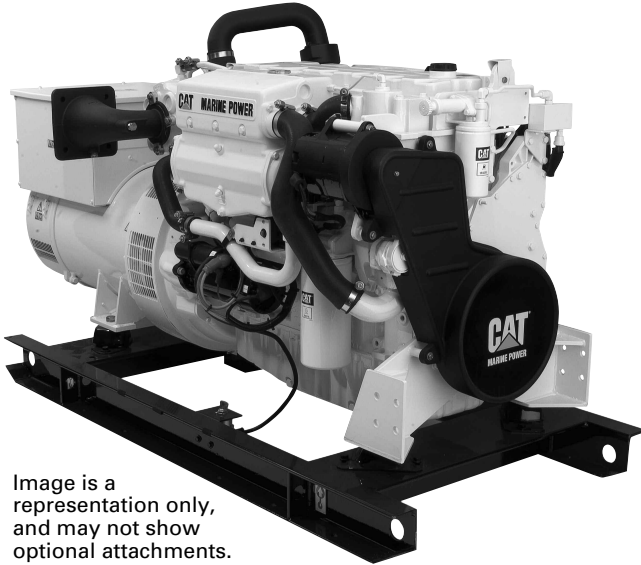


Image is a representation only, and may not show optional attachments.

### CATERPILLAR® ENGINE SPECIFICATIONS

#### I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO/EPA Tier 2 compliant  
Displacement . . . . . 8.8 L (538 cu. in.)  
Rated Engine Speed . . . . . 1500  
Bore . . . . . 112 mm (4.41 in.)  
Stroke . . . . . 149 mm (5.87 in.)  
Aspiration . . . . . Turbocharged-Aftercooled  
Governor . . . . . Electronic  
Cooling System . . . . . Radiator  
Refill Capacity  
Cooling System . . . . . 47.5 L (50.1 qt)  
Lube Oil System . . . . . 32 L (33.8 qt)  
Oil Change Interval . . . . . 500 hr  
Caterpillar Diesel Engine Oil 10W30 or 15W40  
Rotation (from flywheel end) . . . . . Counterclockwise  
Flywheel and flywheel housing . . . . . SAE No. 1  
Flywheel Teeth . . . . . 113  
Max. Exhaust Backpressure . . 10.0 kPa (40.2 in. water)

### STANDARD EQUIPMENT

#### Air Inlet System

Aftercooler, air cleaner, turbocharger

#### Control System

Electronic governor, Hydraulically actuated Electronically controlled Unit Injection (HEUI™) fuel system, Electronic Control Unit (ECU), engine-mounted 40-pin dedicated customer connector, SAE J1939 data link

#### Cooling System

Radiator-cooled package (sized for up to 50°C ambient air) incorporating deaeration expansion tank, belt-driven centrifugal jacket water pump and fan

#### Exhaust System

Manifold and turbocharger, watercooled; 152 mm (6 in) round flanged outlet; elbow, dry

#### Flywheels & Flywheel Housings

Flywheel, SAE No. 1, 113 teeth; flywheel housing, SAE No. 1

#### Fuel System

Fuel filter, front service; fuel transfer pump; fuel priming pump

#### Generator

12 lead reconnectable, 3-phase brushless, separately excited from auxiliary winding to provide 300% short circuit current up to 10 seconds, 2/3 pitch, broad voltage band, IP23 water protection, solid state voltage regulator with integral voltage adjustment, Class H insulation, generator temperature rise exceeds marine society requirements for Class H insulation, 105° C @ 50° C ambient — prime, 85° C @ 50° C ambient — prime connection poles

#### Instrumentation

Instrument panel, electric service meter, start/stop switch, emergency stop button, maintenance due light, diagnostic light, warning light, maintenance clear switch, 15A breaker

#### Lube System

Crankcase breather; oil filter, RH service; oil filler, in valve cover; oil level gauge, LH service; oil pan; oil pan drain, LH; lubricating oil; engine oil pump (gear-driven)

#### Mounting System

Skiddable base frame, front support, anti-vibration isolators between base and engine-generator

#### General

Torsional vibration damper and guard; paint, Caterpillar yellow; lifting eyes; protective lifting covers; literature; variable engine wiring; battery disconnect switch; plastic wrap packaging

### OPTIONAL ATTACHMENTS

#### Exhaust System

Elbows, pipe, flexible fittings, flange, rain caps, mufflers, shields (shields required to meet MCS certification)

#### Fuel System

Fuel cooler, flexible fuel lines, fuel temperature sensors, fuel and oil shielding

#### Lube System

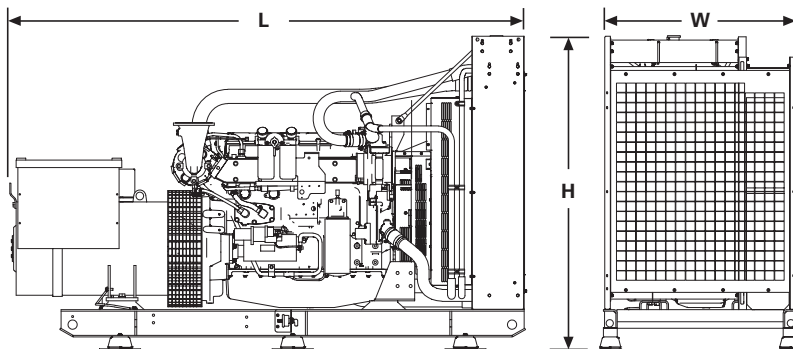
Manual sump pumps, oil filler, duplex oil filters

#### Marine Classification Society (MCS)

MCS approvable packages available direct from the factory through ABS, BV, DNV, GL, and LR

#### Power Take-offs

Crankshaft pulley



### DIMENSIONS

142 ekW (178 kVA), 167 ekW (208 kVA), and 192 ekW (240 kVA) Radiator-Cooled

<b>Length</b>	142 ekW (178 kVA)	2755 mm (108.5 in)
	167 & 192 ekW (208 & 240 kVA)	2765 mm (108.7 in)
<b>Width</b>	All	1047 mm (41.2 in)
<b>Height</b>	All	1615 mm (63.6 in)
<b>Weight (wet)</b>	142 ekW (178 kVA)	2091 kg (4610 lb)
	167 ekW (208 kVA)	2176 kg (4797.3 lb)
	192 ekW (240 kVA)	2241 kg (4940.6 lb)
<b>Weight (wet) MCS Specification</b>	142 ekW (178 kVA)	2100 kg (4620 lb)
	167 ekW (208 kVA)	2185 kg (4807 lb)
	192 ekW (240 kVA)	2250 kg (4950 lb)

### PERFORMANCE DATA

50 Hz Ratings at 1800 rpm

% load	ekW	Lph	gph
<b>142 ekW (0.8 pf) 178 kVA — DM9841</b>			
100	142	41.6	10.8
75	106	31.3	8.3
<b>167 ekW (0.8 pf) 208 kVA — DM9842</b>			
100	167	47.1	12.4
75	124	36.2	9.6
<b>192 ekW (0.8 pf) 240 kVA — DM9839</b>			
100	192	53.7	14.2
75	144	40.8	10.8

### RATING CONDITIONS

**Power** at declared engine speed is in accordance with ISO3046-1:2002E. Caterpillar maintains ISO9001:1994/QS-9000 approved engine test facilities to assure accurate calibration of test equipment. Electronically controlled engines are set at the factory at the advertised power corrected to standard ambient conditions. The published fuel consumption rates are in accordance with ISO3046-1:2002E.

**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.

Power produced at the flywheel will be within standard tolerances up to 49°C (120°F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52°C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.

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