

# DETROIT DIESEL

Marine Model Pleasure Craft

6.3544

120 BHP



A Product From  Perkins



## General Specifications

Weight	100
Engine Type	3-Cycle Diesel
Material	Aluminum
Number of Cylinders	6
Maximum RPM	3,000 (with 2.5" stroke @ 17" bore)
Displacement	564 cu in (9.2 L)
Compression Ratio	14.5:1
Stroke and Bore	2.500 in x 17.000 in

## Rated Power Output—Maximum

Sea Power	100 BHP (37.0 kW) @ 2,800 RPM
Sea Power	110 BHP (40.1 kW) @ 3,000 RPM

## Equipment Specifications

Exhaust Stroke	Standard
Maximum Stroke Stroke	Standard
Oil Service—Forward	Standard
Timing System—Free exchange with crankshaft cam pump	Standard
Control Valve—Single gear, 170° distribution for accelerated	Standard
Engine Water—Four port, flexible, stainless	Standard
Water Pump—Four port, stainless steel with water pump	Standard
Water and Air Intake	Standard
Valve Timing—Automatic	Standard
Valve Oil Film—Type oil, 100W	Standard
Water Seal—Standard Seal, 100W, 100W, 100W	Standard
Oil Filter—High pressure, 170° with 100W, 100W, 100W	Standard
Timing Belt—100W	Standard
Engine Mount—Standard and Modified	Standard

## Performance Curves

### 6.9544—Maximum



### Rating Explanation

6.9544-0000 Series engine rated maximum  
brakepower (brakepower) available at 1800 rpm gear reduction  
(ratio) is 214.540 maximum horsepower (horsepower) at a rated maximum  
altitude.

6.9544-0000 generator set is rated maximum  
brakepower (brakepower) at the maximum altitude (5000 ft) and at the  
rated engine speed (1800 rpm) and at the rated ambient temperature  
(70°F) and at the rated maximum altitude (5000 ft) and at the rated  
engine speed (1800 rpm) and at the rated ambient temperature (70°F).  
Generator set is rated maximum brakepower (brakepower) at the rated  
altitude (5000 ft) and at the rated engine speed (1800 rpm) and at the  
rated ambient temperature (70°F).

Rated maximum brakepower (brakepower) is the maximum brakepower  
available at the rated engine speed (1800 rpm) and at the rated maximum  
altitude (5000 ft) and at the rated ambient temperature (70°F) and at the  
rated engine speed (1800 rpm) and at the rated maximum altitude (5000 ft)  
and at the rated ambient temperature (70°F). The rated maximum  
brakepower (brakepower) is the maximum brakepower (brakepower) available  
at a maximum of 1.000000 g force.

NOTE: When rated up, the engine will produce the rated power at  
maximum of 1.000000 g force at the rated altitude (5000 ft) and at the  
rated engine speed (1800 rpm) and at the rated ambient temperature (70°F).

Generator set rated maximum brakepower (brakepower) is the rating  
that it applies to your order.

### Dimensional Drawing

Model 6954

Approximate dimensions shown.  
For complete dimensional information,  
consult technical drawing.



## DETROIT DIESEL



GENERATOR SETS

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# DETROIT DIESEL

Marine Model  
Pleasure Craft

A Product From D/Perkins

6.3544 150 BHP



## General Specifications

Max Torque	500
Engine Type	4-Cycle Diesel
Valvetrain	Turbocharged
Number of Cylinders	6
Block/Cylinder Head	Cast Iron/Aluminum with 4 1/2" x 4" Bore
Displacement	600 cu in (9.8 L)
Compression Ratio	15.5:1
Max HP (SAE) RPM/Min	150 @ 2100 RPM

## Rated Power Output - Maximum

Crash Stop	150 HP (110 kW) @ 2100 RPM
Max Power	150 HP (110 kW) @ 2100 RPM

## Equipment Specifications

Arrival and Departure	
Maximum 12 volt, 20 amp	
Maximum 40 amp, 100 watt	
Cooling System - Turbocharged with raw water pump coolant intake - longstroke, 1700 RPM water pump with 1700 RPM water pump	
Engine Mounts - Four cast, flexible, adjustable	
Oil Pan - Cast iron with oil level indicator and oil change oil level indicator	
Flashed and sealed housing	
Exhaust - Steel exhaust pipe with 1700 RPM and 1700 RPM	
Overhaul - Maximum	
Life 20 Year - 2000 hours	
Major Overhaul - 2000 hours (2000 @ 1700 RPM and 1700 hours 2000)	
Other - High speed 1700 RPM with 1700 RPM and 1700 RPM 1700	
Maximum 12 volt	
Max Power - Maximum 1700 RPM	

## Performance Curves

### 6.2004 - Maximum



### Rating Explanation

6.2004 Maximum gross horsepower, based on the gross method, is the maximum value for the engine's rated output. The gross method is based on the engine's output at the crankshaft, without any accessories. The gross method is used for rating engines in the 1000 to 1800 RPM range. The gross method is used for rating engines in the 1000 to 1800 RPM range. The gross method is used for rating engines in the 1000 to 1800 RPM range. The gross method is used for rating engines in the 1000 to 1800 RPM range.

Net power is the power available at the engine's output shaft, after accounting for the power used by the engine's accessories. Net power is used for rating engines in the 1000 to 1800 RPM range. Net power is used for rating engines in the 1000 to 1800 RPM range. Net power is used for rating engines in the 1000 to 1800 RPM range.

6.2004 Maximum gross torque is the maximum value for the engine's rated output. The gross method is based on the engine's output at the crankshaft, without any accessories. The gross method is used for rating engines in the 1000 to 1800 RPM range.

Consult your authorized Detroit Diesel Corporation representative for any technical specifications.

### Dimensional Drawing

Model 6.2004

Approximate dimensions shown. For complete dimensions, consult technical drawing.



## DETROIT DIESEL

Corporation



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# DETROIT DIESEL

Marine Model  
Pleasure Craft

6.3544 185 BHP



## General Specifications

Block Design	5B
Injection Type	Direct Injection
Aspiration	Turbocharged Intercooler
Number of Cylinders	6
Bore and Stroke	3.675 in (93.8 mm) x 5.07 in (128.7 mm)
Displacement	364 cu in (5.9 L)
Compression Ratio	16.5:1
Maximum cranking speed	1000 RPM (50 Hz)

## Rated Power Output—Maximum

Power/Fuel	185/20.5 (1000 RPM) (1500 RPM)
Power/Fuel	182/20.4 (2300 RPM) (2400 RPM)

## Equipment Specifications

Oil	SAE 15W-40
Water Pump	100 GPM (3.8 LPM)
Exhaust	1.5 in (38 mm)
Timing Belts	Timing Belts with low stretch steel pulley
Overhead Valve	Single Valve PTO Configuration Assembly with Overhead Valve/Overhead Valve
Engine Mounts	Two-point flexible supports
Engine Support	Two support points mounted and bolted through engine block/overhead valve
Engine Oil	Two-point mounting
Fuel System	Overhead fuel injection system with fuel and air filter
Clamping	Mechanical
Water	Flow controlled, with inlet strainer
Water Filter	Spin-on filter
Water Seal	Coast Seal (2000114) 1.50 in (38 mm) dia.
Oil Pan	High resistance 27" wide aluminum extrusion with
Timing Mark	Oil pan
Regulator	Flow and mechanical

## Performance Curves

### 5.2044—Maximum



### Rating Explanation

4475 (2044) Base engine performance.

Power/HP for gross capabilities shown per configuration.

2000/18.1 (2044) includes horsepower available for a typical full gear profile.

Always consult the engine manual and/or dealer for high performance uses and limits of engine operation. Consult your dealer for engine and accessories. For more information, visit [www.detroitdiesel.com](http://www.detroitdiesel.com). For complete dimensional information, refer to installation drawing.

Always consult your dealer for information on other accessories and options. Always use proper safety practices when operating this engine. For more information, visit [www.detroitdiesel.com](http://www.detroitdiesel.com). For complete dimensional information, refer to installation drawing.

2044 (2044) includes horsepower available for a typical full gear profile.

Always consult your dealer for information on other accessories and options.

### Dimensional Drawing

Model 5.2044

Accessories shown shown.  
For complete dimensional information,  
refer to installation drawing.



**DETROIT DIESEL**

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# DETROIT DIESEL

Marine Model  
Pleasure Craft

6.5544 215 BHP



## General Specifications

Block Design	120
Engine Type	4-Cycle, In-Line
Injection	Turbocharged/Charge-Cooled
Water Intake	3
Oil and Water	3.8% (water/3.8% oil) x 100 (W/O)
Dimensions	30.0" x 47.0"
Compression Ratio	15.5:1
Weight (incl. oil)	345 lbs (157 kg)

## Rated Power Output—Maximum

Sea Trial	3000 RPM, 215 BHP (157 kW)
Normal	2600 RPM, 190 BHP (139 kW)

## Equipment Specifications

- Rated RPM—3000
- Alternator—12 volt, 35 amp
- Oil—SAE 30—Marine
- Cooling System—Raw water pump with raw and freshwater pumps
- Control—Ruler—Single gear, 270°/360° system to increase RPM
- Engine—Ruler—Flywheel, 2400 RPM
- Exhaust System—Raw water, exhaust manifold, exhaust diverter, exhaust manifold, exhaust
- Exhaust and Fuel—Injection
- Raw Water—Raw water intake pump with 30 gpm and 500 GPH
- Exhaust—Raw water
- Injection—Raw water, exhaust manifold, exhaust diverter, exhaust manifold, exhaust
- Injection—Raw water, exhaust manifold, exhaust diverter, exhaust manifold, exhaust
- Injection—Raw water, exhaust manifold, exhaust diverter, exhaust manifold, exhaust
- Injection—Raw water, exhaust manifold, exhaust diverter, exhaust manifold, exhaust
- Injection—Raw water, exhaust manifold, exhaust diverter, exhaust manifold, exhaust

## Performance Curves

6.2544—Maximum



## Rating Explanation

DETROIT DIESEL maximum performance horsepower (BHP) is based on a 15-minute test cycle at the maximum gross torque speed. The 15-minute test cycle is based on a 15-minute test cycle.

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DETROIT DIESEL maximum performance horsepower (BHP) is based on a 15-minute test cycle at the maximum gross torque speed. The 15-minute test cycle is based on a 15-minute test cycle. The 15-minute test cycle is based on a 15-minute test cycle. The 15-minute test cycle is based on a 15-minute test cycle.

## Dimensional Drawing

### Model 6.2544

Approximate dimensions shown. For complete dimensional information, refer to technical drawing.



**DETROIT DIESEL**



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# DETROIT DIESEL

Marine Pleasure Craft

6.3544 250 BHP



A Product From  Perkins



## General Specifications

Block Engine	6-21
Cylinder Type	4-Cycle In-line
Injection	Indirect Injection Turbo
Number of Cylinders	6
Block and Frame	Cast-iron with steel and a full cast
Dimensions	36.4" x 41.8" x 41.1"
Compression Ratio	15.5:1
Weight (dry including oil)	1,100 lbs (500 kg)

## Rated Power Output—Maximum

Continuous	200kW (269 HP) @ 2,200 RPM
Maximum	232kW (312 HP) @ 2,200 RPM

## Equipment Specifications

- Oil Pan—Adjustable
- Manifold—18 volt, electric
- Exhaust—Sea—Mechanical
- Timing System—Sea—Interchange with the standard water pump
- Exhaust Valve—Single groove, PTO belt driven for seawater
- Engine Mounts—Four point flexible supports
- Exhaust System—Four water cooled marine water-tight type 304 stainless steel
- Hydraulic/Hybrid Timing
- Sea System—Sea—Mechanical water-tight shaft pump and fuel filter
- Seawater—Mechanical
- Seawater—Sea—Water cooled, 100% sea water
- Sea—Oil Filter—Optional, 100% sea
- Water Pump—Detroit Diesel 220/1 (1700 RPM) 30 stainless steel
- Oil Pan—High—Standard 17" depth with fuel filter and oil level gauge
- Starting Motor—12 volt
- Sea Control—Mechanical and electrical

## Performance Curve

8.3344—Maximum



## Rating Explanation

Rated net horsepower (gross torque) is based on the gross torque available at the engine crankshaft output. The gross torque is the torque available at the engine crankshaft output. The net horsepower is the horsepower available at the engine crankshaft output. The brake horsepower is the horsepower available at the engine crankshaft output. The gross torque is the torque available at the engine crankshaft output. The net horsepower is the horsepower available at the engine crankshaft output. The brake horsepower is the horsepower available at the engine crankshaft output.

gross torque. The gross torque is the torque available at the engine crankshaft output. The net horsepower is the horsepower available at the engine crankshaft output.

NOTE: Gross torque and net horsepower are based on the gross torque available at the engine crankshaft output. The net horsepower is the horsepower available at the engine crankshaft output.

Rated net horsepower and gross torque are based on the gross torque available at the engine crankshaft output. The net horsepower is the horsepower available at the engine crankshaft output.

## Dimensional Drawing

Model 8.3344

Approximate dimensions shown. For complete dimensional information, refer to technical drawing.



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