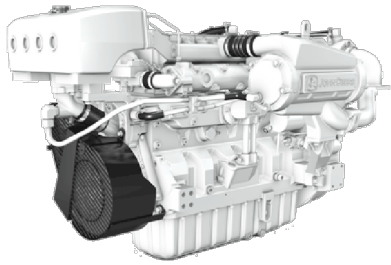


# PowerTech™

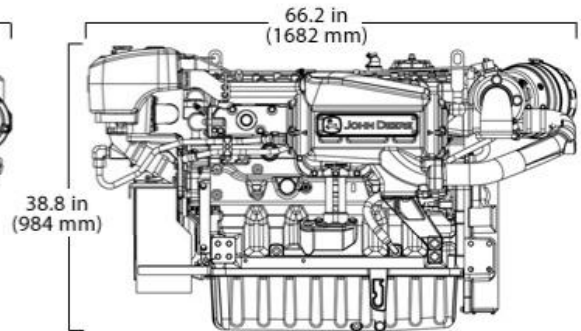
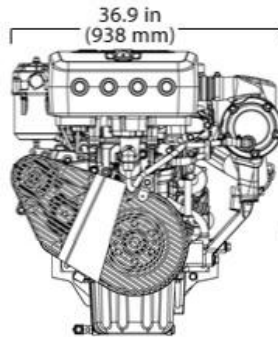
## 6090AFM75 Diesel Engine

Marine Propulsion Engine Specifications



6090AFM75 shown

### Dimensions



Dimensions shown in mm (in) may vary according to options selected. Contact your distributor for more information.

### Emissions

EPA Commercial Marine Tier 2  
IMO MARPOL Annex VI Compliant  
NRMM (97/68/EC) as amended

### General Data (Based on Standard Option Configuration)

Model	6090AFM75	Length maximum - mm (in)	1712 (67.4)
Number of cylinders	6	Length to rear face of flywheel housing - mm (in)	1415 (55.7)
Displacement - L (cu in)	9.0 (549)	Height - mm (in)	984 (38.8)
Bore and Stroke-- mm (in)	118 x 136 (4.65 x 5.35)	Height, crankshaft centerline to top - mm (in)	665 (26.2)
Engine Type	In-line, 4-Cycle	Height, crankshaft centerline to bottom - mm (in)	319 (12.6)
Aspiration	Turbocharged and air-to-coolant aftercooled	Weight, dry - kg (lb)	1011 (2229)

### Classification Societies

ABS,BV,CCS,DNV-GL,LR

\*SOLAS and other accessories available. Contact your distributor for details.

### Engine Specifications

Performance ratings	Power kW (bhp)	Rated Speed (rpm)	Rated fuel consumption L/hr (gal/hr)
M1	213 (285)	2100	57.8 (15.3)
M2	242 (325)	2200	67.1 (17.7)
M3	280 (376)	2300	79.6 (21.0)
M4	317 (425)	2400	90.7 (24.0)

Metric hp = Brake hp x 1.01387

M rating	M1	M2	M3	M4
Typical load factor	> 65%	< =65%	< =50%	< =40%
Typical annual usage (hr)	Unrestricted	3,000-5,000 hr	2,000-4,000 hr	1,000-3,000 hr
Typical full-power operation (hr)	Uninterrupted	16 of each 24 hr	4 of each 12 hr	1 of each 12 hr

Ratings are based on ISO 8655 standard power rating and the SAE J1 228 crankshaft power rating.

Flexibility of installation due to range of options.

See your John Deere Power Systems engine distributor or marine dealer for more detailed performance information.

## Features and Benefits

### Water-cooled Exhaust Manifold

- Integrated components eliminate external hoses and fittings that can leak or break. Wet exhaust manifold creates a cooler and quieter environment for passengers and crew.

### Directed Top-liner Cooling

- Reduces upper liner temperature by as much as 100 degrees Fahrenheit (54 degrees Celsius)
- Durable and reliable power cylinder components

### Replaceable Cylinder Liners

- Replaceable wet-type cylinder liners are precision-machined and hardened for long life. Allows engine to be rebuilt to original specifications.

### Front or Side Service

- Oil and fuel filter combinations
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

### Cooling System

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Available as keel cooled

### High Torque and Low Rated RPM

- High torque provides excellent vessel control and maneuverability. Lower rated propulsion RPM reduces vibration and noise for improved crew comfort.

### Fuel System

- Electronically controlled high pressure common rail fuel system provides precise fuel delivery with variable timing resulting in excellent fuel economy and performance
- Self diagnostics and protection

#### John Deere Power Systems

3801 W. Ridgeway Ave.  
PO Box 5100  
Waterloo, IA 50704-5100  
Phone: 1-800-533-6446  
Fax: 319.292.5075

#### John Deere Power Systems

**Usine de Saran**  
La Foulonnerie - B.P. 11.13  
45401 Fleury les Aubrais Cedex  
France  
Phone: 33.2.38.82.61.19  
Fax: 33.2.38.82.60.00

#### Preliminary Information

*All values at rated speed and power with standard options unless otherwise noted. Specifications and design subject to change without notice.*