

# PowerTech™

## 6090SFM75 Diesel Engine

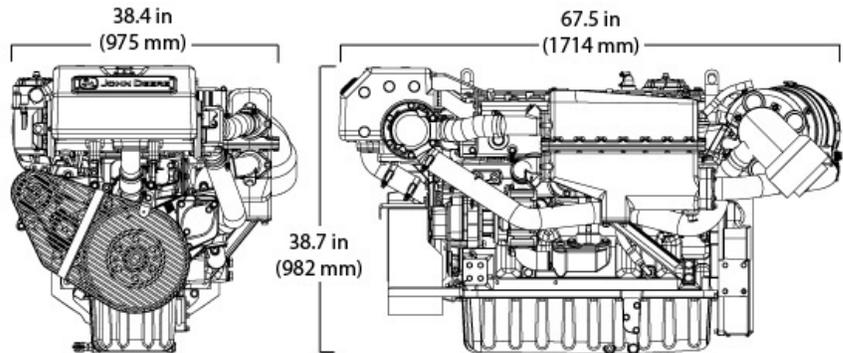
Marine Propulsion Engine Specifications



### Dimensions



6090SFM75 shown



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	6090SFM75	Length maximum - mm (in)	1714 (67.5)
Number of cylinders	6	Length to rear face of flywheel housing - mm (in)	1415 (55.7)
Displacement - L (cu in)	9.0 (549)	Flywheel housing SAE	2
Bore and Stroke-- mm (in)	118.4 x 136 (4.66 x 5.35)	Height - mm (in)	982 (38.7)
Engine Type	In-line, 4- Cycle	Height, crankshaft centerline to top - mm (in)	662 (26.1)
Aspiration	Air-to-sea water	Height, crankshaft centerline to bottom - mm (in)	320 (12.6)
		Weight, dry - kg (lb)	1066 (2350)

### 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	242 (325)	2100	62.7 (16.6)
M2	280 (375)	2200	70.9 (18.7)
M3	317 (425)	2300	80.4 (21.2)
M4	373 (500)	2400	94.0 (24.8)
M5	410 (550)	2500	108.0 (28.5)

Metric hp = Brake hp x 1.01387

M rating	M1	M2	M3	M4	M5
Typical load factor	> 65%	< =65%	< =50%	< =40%	< =35%
Typical annual usage (hr)	Unrestricted	3,000-5,000 hr	2,000-4,000 hr	1,000-3,000 hr	300-1,000 hr
Typical full-power operation (hr)	Uninterrupted	16 of each 24 hr	4 of each 12 hr	1 of each 12 hr	0.5 of each 8 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

### Heat Exchanger

- High-capacity heat exchanger provides reliable operation in adverse conditions.

### 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