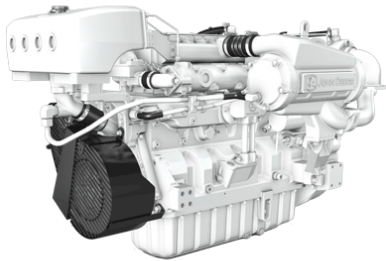


PowerTech™

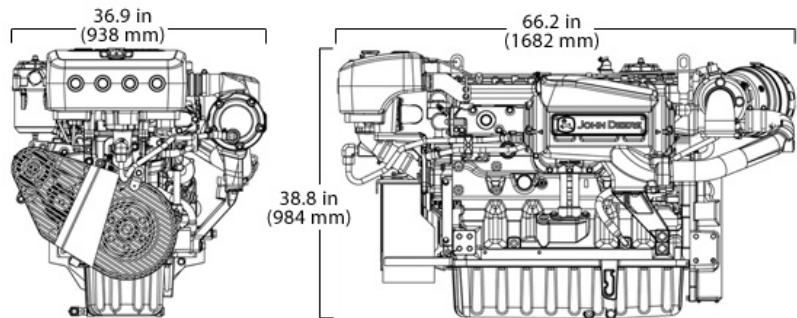
6090AFM75 Diesel Engine

Propulsion Engine Specifications



6090AFM75 shown

Dimensions



Certifications

EPA Commercial Marine Tier 2
IMO MARPOL Annex VI Compliant
IWT (2004/26/EC)

General data

Model	6090AFM75	Length - mm (in)	1682 (66.2)
Number of cylinders	6	Width - mm (in)	938 (36.9)
Displacement - L (cu in)	9.0 (549)	Height, Centerline to Top-- mm. (in)	665 (26.2)
Bore and Stroke-- mm (in)	118 x 136 (4.65 x 5.35)	Height, Centerline to Bottom-- mm. (in)	319 (12.6)
Compression Ratio	16.0 : 1	Weight, dry-- kg (lb)	1011 (2229)
Engine Type	In-line, 4-Cycle	Maximum Installed Angle	Front Up – degrees 12 Front Down – degrees 0
Aspiration	Turbocharged and air-to-coolant aftercooled		

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

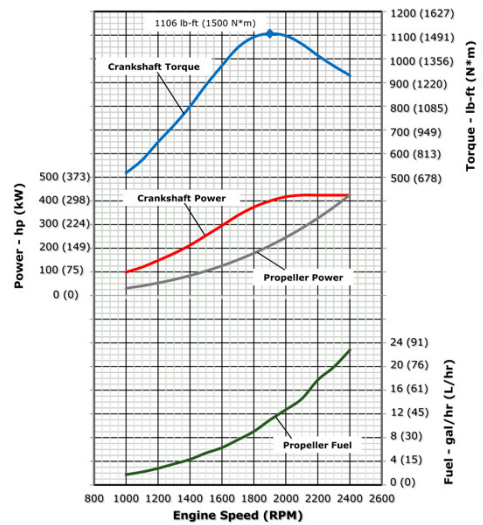
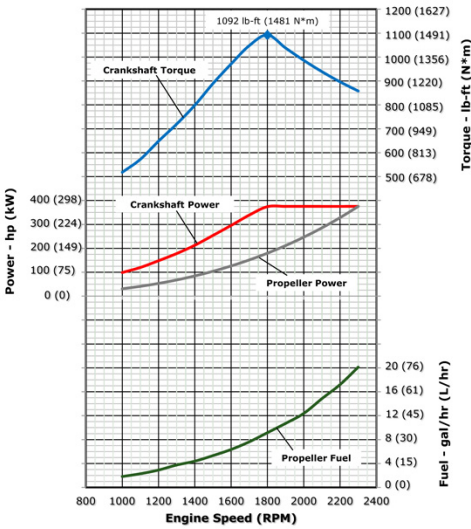
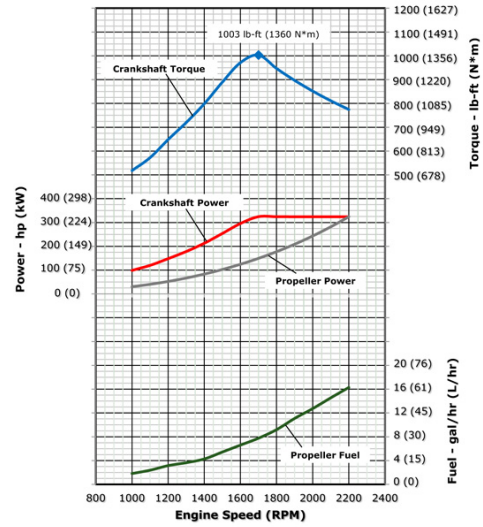
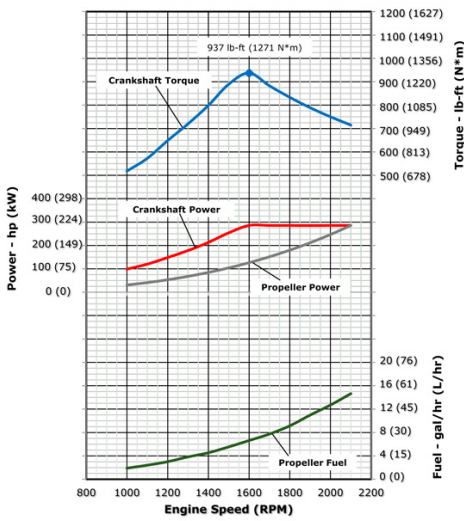
High Torque and Low Rated RPM

- 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

Performance curve



Performance data	M4	M3	M2	M1
Rated Power - kW (hp)	317 (425)	280 (376)	242 (325)	213 (285)
Rated Speed - rpm	2400	2300	2200	2100
Low Idle Speed - rpm	650	650	650	650
Peak Torque - Nm (ft-lb)	1500 (1106)	1481 (1092)	1360 (1003)	1271 (937)
Peak Torque Speed - rpm	1900	1800	1700	1600
Fuel Consumption - L/h (gal/hr)	90.7 (24.0)	79.6 (21.0)	67.1 (17.7)	57.8 (15.3)

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

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