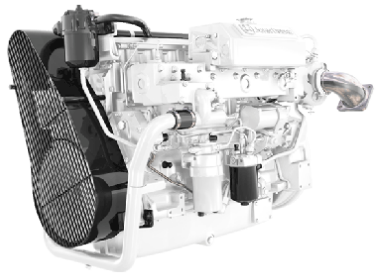
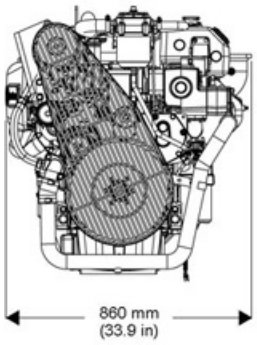
PowerTech 6068AFM75 Diesel Engine

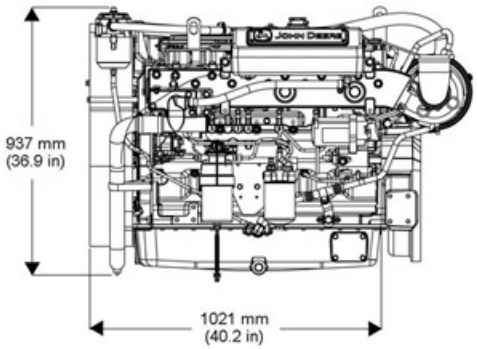
Propulsion Engine Specifications



6068AFM75 shown

Dimensions





Certifications

IMO MARPOL Annex VI
US EPA Marine Tier 2 Compliant
IWT (2004/26/EC)
RCD (2003/44/EC)

General engine data

Model	6068AFM75
Number of cylinders	6
Displacement - L (cu in)	6.8 (415)
Bore and Stroke-- mm (in)	106.5 x 127 (4.19 x 5.00)
Compression Ratio	16.7 : 1
Engine Type	In-line, 4-Cycle
Aspiration	Turbocharged and air-to-coolant aftercooled

Length - mm (in)	1021 (40.2)	
Width - mm (in)	860 (33.9)	
Height, Centerline to Top-- mm. (in)	645 (25.4)	
Height, Centerline to Bottom-- mm. (in)	292 (11.5)	
Weight, dry-- kg (lb)	812 (1790)	
Maximum installed angle	Front Up – degrees	9
	Front Down – degrees	0

Features and benefits

High-Pressure Common Rail Fuel System

- Variable injection pressure and timing control

John Deere Electronic Controls

- Built in controls eliminates the need for costly add on engine warning systems and associated components stored for later retrieval and ease of diagnostics
- Built in engine synchronization feature

Watercooled Turbocharger and Exhaust Manifold

- Cooler and quieter environment for vessel and crew
- Reduced external connection eliminates hoses and fittings that can leak or break

Replaceable Wet-type Cylinder Liners

- Hardened and precision machined for long life
- Rebuild to original specifications

High Torque and Low Rated RPM

- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise

Cooling System

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

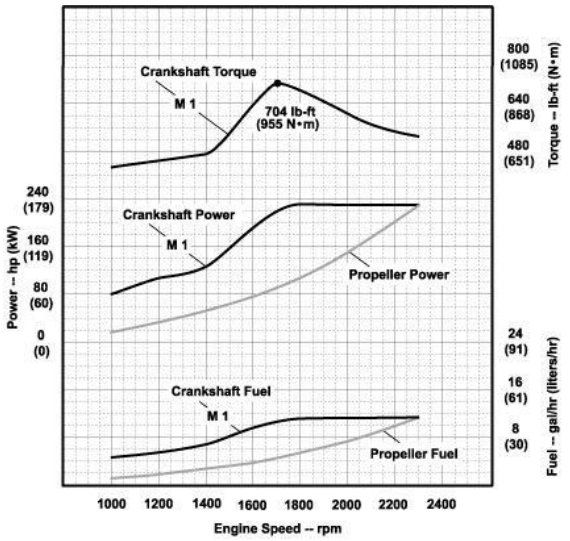
Additional Features

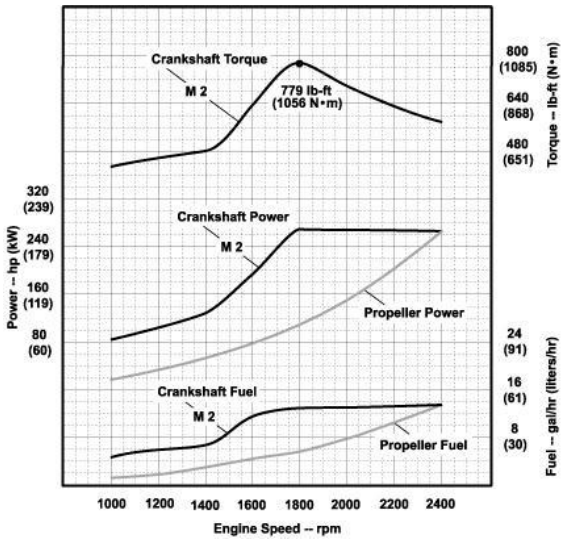
- Either side service
- Optional auxiliary drive

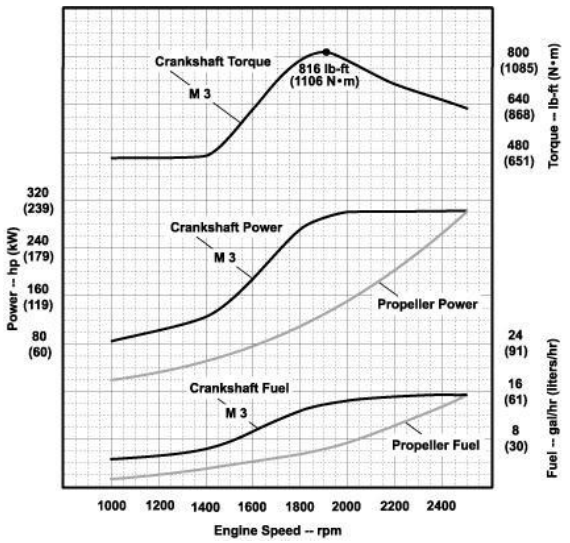
Applications

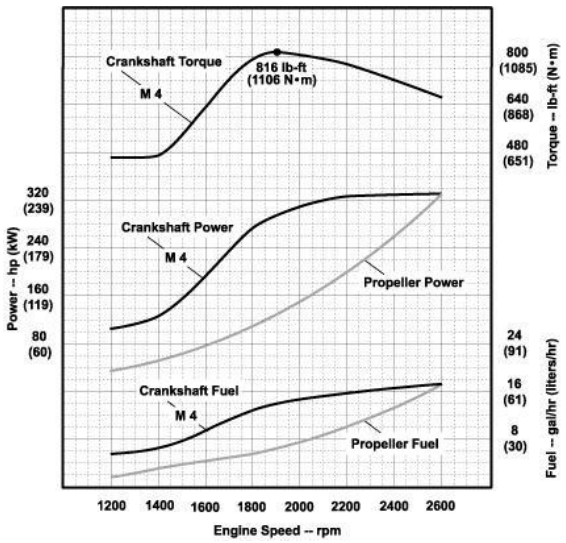
- Generator drive engines, propulsion, and auxiliary

Performance curve









Performance data	M4	M3	M2	M1
Rated Power - kW (hp)	246 (330)	224 (300)	198 (266)	172 (231)
Rated Speed - rpm	2600	2500	2400	2300
Low Idle Speed - rpm	600	600	600	600
Peak Torque - Nm (ft-lb)	1106 (816)	1106 (816)	1056 (779)	955 (704)
Peak Torque Speed - rpm	1900	1900	1800	1700
Fuel Consumption - L/h (gal/hr)	65.2 (17.2)	57.9 (15.3)	51.2 (13.5)	43.6 (11.5)

M rating	M4	M3	M2	M1
Typical load factor	40 %	50 %	65 %	> 65 %
Typical annual usage (hr)	800	2000	3000	> 3000
Typical full-power operation (hr)	1 of each 12	4 of each 12	16 of each 24	24 Uninterrupted

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