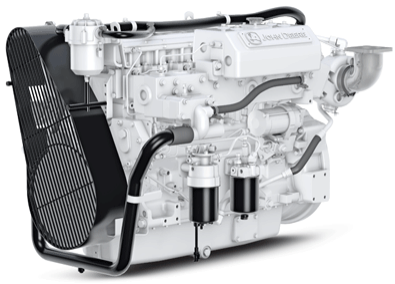
PowerTech ™ 6068AFM85 Diesel Engine

Propulsion Engine Specifications

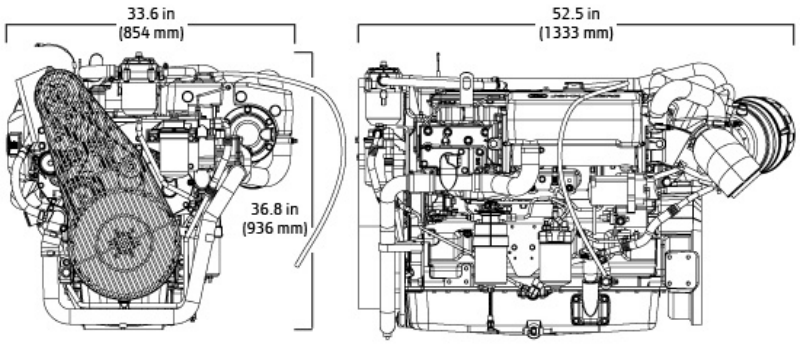
Offshore Marine Services
Burtonport Co Donegal Ireland
offshoreireland@3mail.ie

JOHN DEERE



6068AFM85 shown

Dimensions



Certifications

EPA Commercial Marine Tier 3

IMO MARPOL Annex VI Compliant

General data

Model	6068AFM85
Number of cylinders	6
Displacement - L (cu in)	6.8 (415)
Bore and Stroke-- mm (in)	107 x 127 (4.21 x 5.00)
Compression Ratio	16.7:1
Engine Type	In-line, 4- Cycle
Aspiration	Turbocharged and air-to-coolant aftercooled

Length - mm (in)	1333 (52.5)	
Width - mm (in)	854 (33.6)	
Height, Centerline to Top-- mm. (in)	646 (25.4)	
Height, Centerline to Bottom-- mm. (in)	290 (11.4)	
Weight, dry-- kg (lb)	787 (1735)	
Maximum Installed Angle	Front Up – degrees	12
	Front Down – degrees	0

Features and benefits

Watercooled Turbocharger and Exhaust Manifold

- A true marine wet turbocharger and wet exhaust manifold lowering surface and engine room temperatures
- Integrated components reduce external connections, hose and fitting that can leak or break

Replaceable Wet-type Cylinder Liners

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

High Pressure Common Rail Fuel System

- High pressure common rail fuel system provides high performance, excellent fuel economy, and low emissions
- Electronic transfer pump provides self-priming fuel system for ease of maintenance

Heat Exchanger or Keel Cooled

- Integrated expansion tank and heat exchanger
- Low maintenance single circuit keel cooled option for your applications needs

High Torque and Low Rated RPM

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

Corrosion Resistant Components

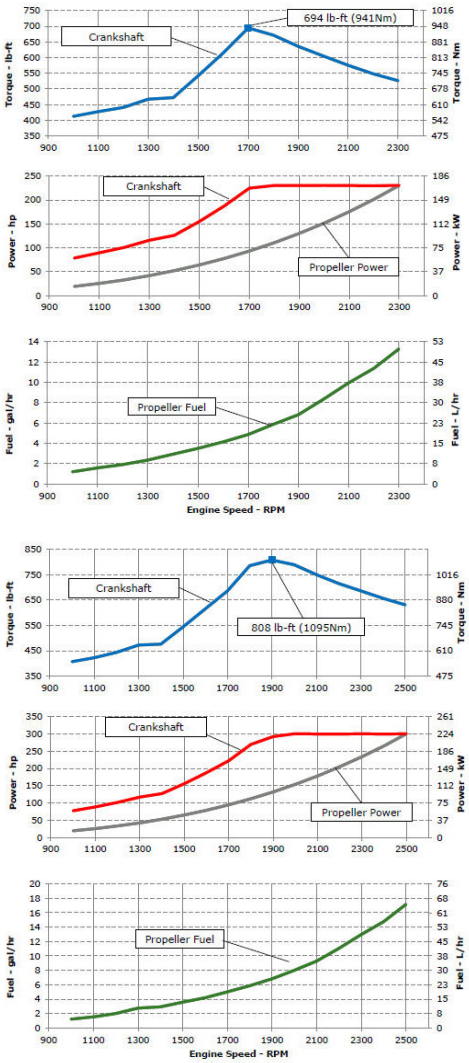
- Provides engine protection from the effects of seawater

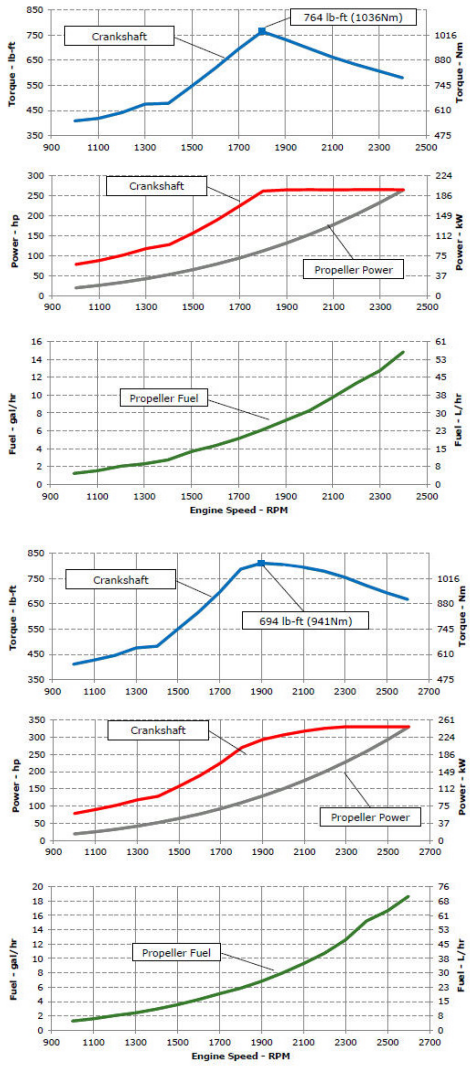
John Deere Electronic Controls

- Advanced fault code diagnostics and customizable engine protections ensure reliability and uptime
- Highly customizable features and trim to integrate your vessel and meet specific applications needs

Photographs may show non-standard equipment.

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)	1099 (811)	1095 (808)	1036 (764)	941 (694)
Peak Torque Speed - rpm	1900	1900	1800	1700
Fuel Consumption - L/h (gal/hr)	71.2 (18.8)	76.0 (20.1)	57.9 (15.3)	50.9 (13.4)

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

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 Aubra is 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.

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