

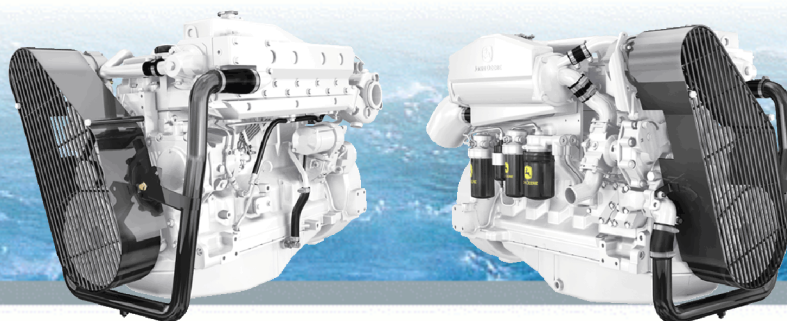


JOHN DEERE

PowerTech™

6068SFM Marine Engine

Propulsion Specifications



6068SFM Engine shown

General Data

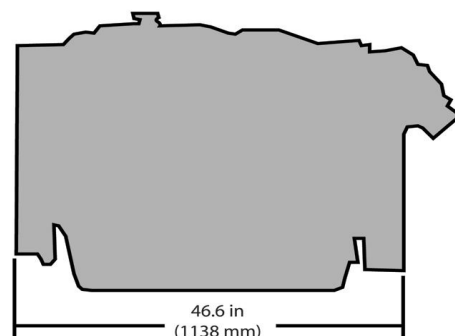
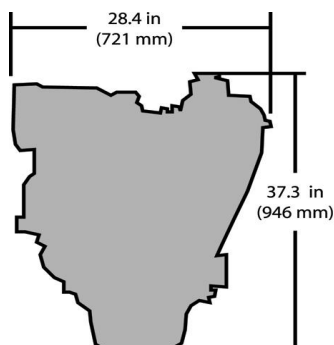
Model	6068SFM50
Number of cylinders	6
Displacement-- L (cu in)	6.8 (415)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)
Compression Ratio	17.0:1
Engine Type	In-line, 4- Cycle
Aspiration	Seawater Aftercooled

Length-- mm (in)	1183 (46.6)
Width-- mm (in)	721 (28.4)
Height, Centerline to Top-- mm. (in)	619 (24.4)
Height, Centerline to Bottom-- mm. (in)	327 (12.9)
Weight, dry-- kg (lb)	776 (1711)
Maximum Installed Angle	
Front Up - degrees	9
Front Down - degrees	0

Certifications

- IMO MARPOL Annex VI
- US EPA Marine Tier 2 Compliant
- IWT (2004/26/EC)
- RCD (2003/44/EC)
- American Bureau of Shipping
- China Classification Society
- Det Norske Veritas
- Lloyd's Register

Dimensions



Features and Benefits

Watercooled Exhaust Manifold

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

Replaceable wet-type cylinder liners

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

Corrosion Resistant Components

- Provides engine protection from the effects of seawater

Either-side Service

- Oil fill and dipstick combinations
- Remote oil filter for easier service access
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

Heat Exchanger

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Seawater aftercooler for increased power and efficiency

High Torque and Low Rated RPM

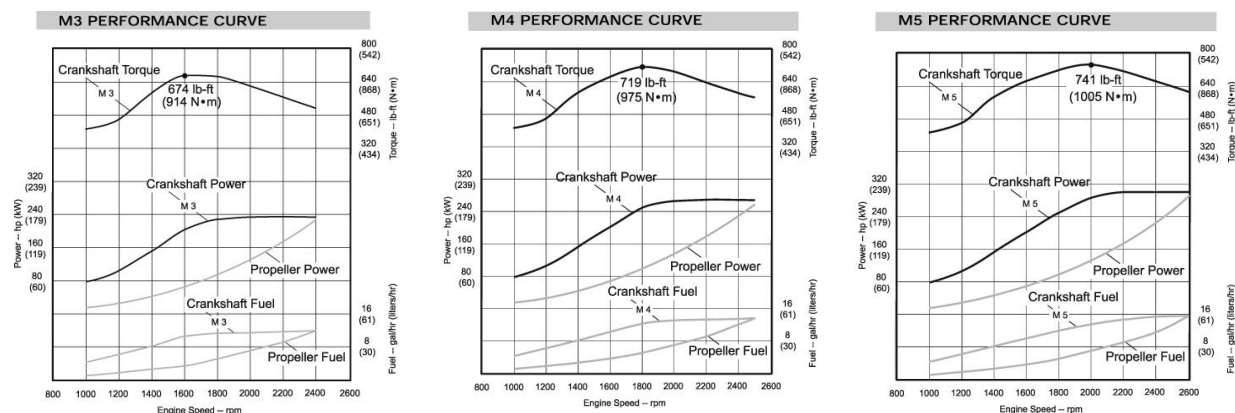
- Enables the engine to turn larger propellers at lower speed for best efficiency
- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

Fuel System

- Electronically controlled rotary fuel injection pump with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection
- Electronic instrument panel with plain text messaging

Propulsion Specifications

Performance curve



Performance data	M5	M4	M3
Rated Power - kW (hp)	224 (300)	199 (267)	176 (236)
Rated Speed - rpm	2600	2500	2400
Low Idle Speed - rpm	650	650	650
Peak Torque - Nm (ft-lb)	1005 (741)	975 (719)	914 (674)
Peak Torque Speed - rpm	2000	1800	1600
Fuel Consumption - L/h (gal/hr)	59.1 (15.6)	51.6 (13.6)	45.5 (12.0)

M rating	M5	M4	M3
Typical load factor	≤ 35 %	≤ 40 %	≤ 50 %
Typical annual usage (hr)	≤ 300	≤ 800	≤ 2000
Typical full-power operation (hr)	0.5 of each 8	1 of each 12	4 of each 12



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