

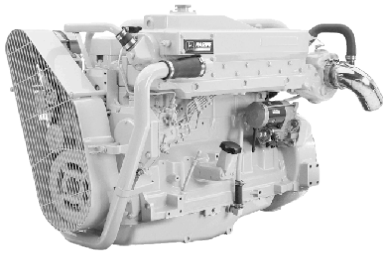
PowerTech

6068TFM Diesel Engine

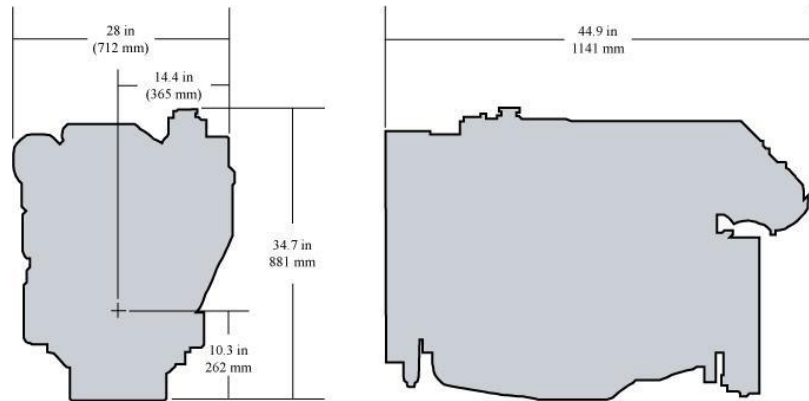
Propulsion Engine Specifications



Dimensions



6068TFM shown



Certifications

- American Bureau of Shipping
- China Classification Society
- Det Norske Veritas
- IMO MARPOL Annex VI
- Registro Italiano Navale

General data

Model	6068TFM50	Length - mm (in)	1141 (44.9)
Number of cylinders	6	Width - mm (in)	712 (28.0)
Displacement - L (cu in)	6.8 (415)	Height-- mm (in)	881 (34.7)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)	Weight, dry-- kg (lb)	730 (1609)
Compression Ratio	17.0:1	Maximum Installed Angle	Front Up – degrees 9 Front Down – degrees 0
Engine Type	In-line, 4- Cycle		
Aspiration	Turbocharged		

Features and benefits

Watercooled Turbocharger and 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 or Keel Cooled

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Keel cooler or heat exchanger options provide application flexibility

High Torque and Low Rated RPM

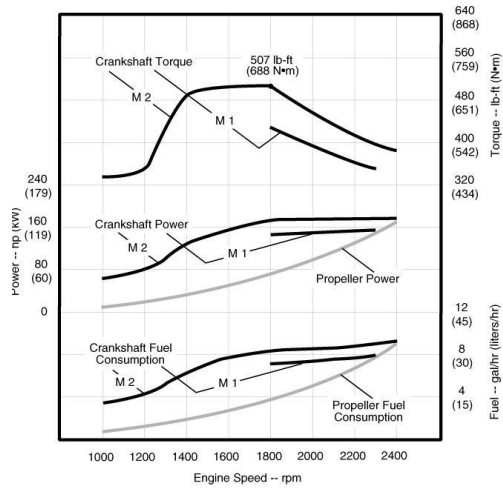
- Enables the engine to turn larger propellers at lower speed for best efficiency
- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

Fuel System

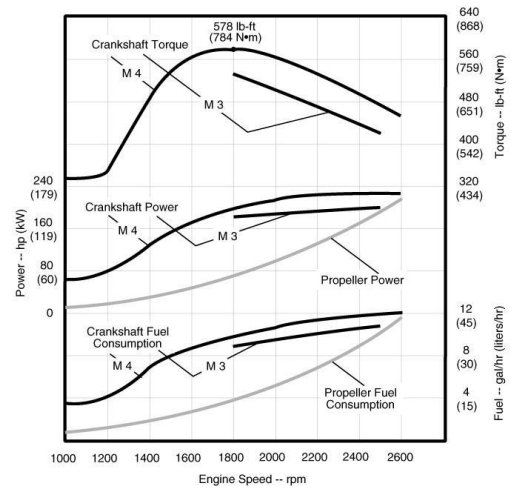
- Proven and reliable Mechanical Governor

Performance curve

M1, M2 PERFORMANCE CURVE



M3, M4 PERFORMANCE CURVE



Performance data	M4	M2
Rated Power - kW (hp)	168 (225)	130.5 (175)
Rated Speed - rpm	2600	2400
Low Idle Speed - rpm	650	650
Peak Torque - Nm (ft-lb)	780 (575)	684 (504)
Peak Torque Speed - rpm	1800	1800
Fuel Consumption - L/h (gal/hr)	46.8 (12.4)	36.3 (9.6)

M rating	M4	M2
Typical load factor	40 %	65 %
Typical annual usage (hr)	800	3000
Typical full-power operation (hr)	1 of each 12	16 of each 24

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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.