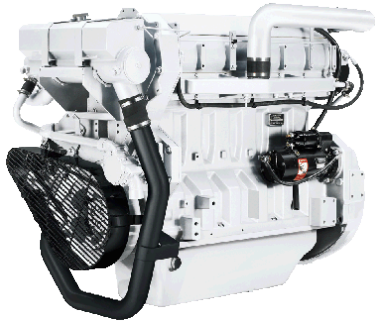


PowerTech

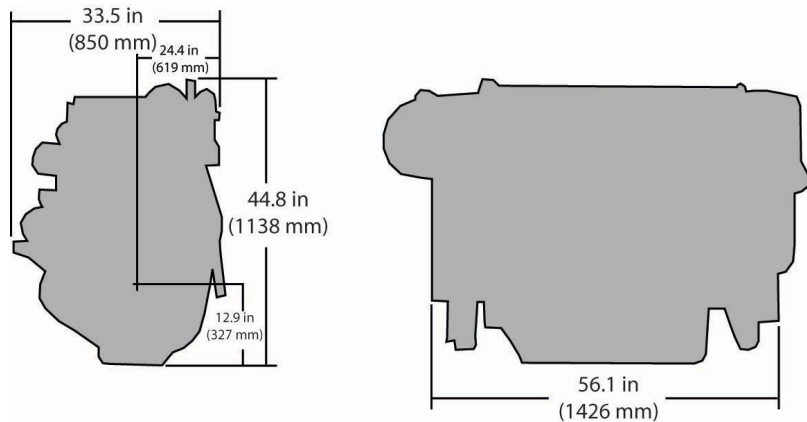
6125AFM Diesel Engine

Propulsion Engine Specifications



6125AFM shown

Dimensions



Certifications

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

General engine data

Model	6125AFM75	Length - mm (in)	1426 (56.1)
Number of cylinders	6	Width - mm (in)	850 (33.5)
Displacement - L (cu in)	12.5 (763)	Height, Centerline to Top-- mm. (in)	774 (30.5)
Bore and Stroke-- mm (in)	127 x 165 (5.00 x 6.50)	Height, Centerline to Bottom-- mm. (in)	364 (14.3)
Compression Ratio	17.0:1	Weight, dry-- kg (lb)	1372 (3025)
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

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

Directed Top-liner Cooling

- Reduces upper liner temperature by as much as 130 degrees Fahrenheit
- Durable and reliable power cylinder components

Gear Auxiliary Drive

- Optional auxiliary drive for wash-down pumps, hydraulic oil pumps, and air compressors

Either-side Service

- Oil fill and dipstick combinations
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

Heat Exchanger or Keel Cooled

- Keel cooler or heat exchanger options provide application flexibility

High Torque and Low Rated RPM

- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

Replaceable Wet-type Cylinder Liners

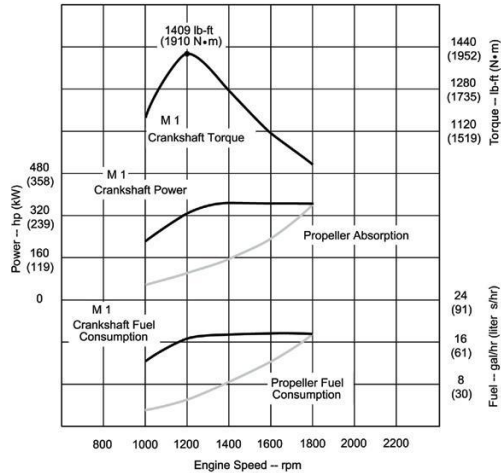
- Hardened and precision machined for long life

Fuel System

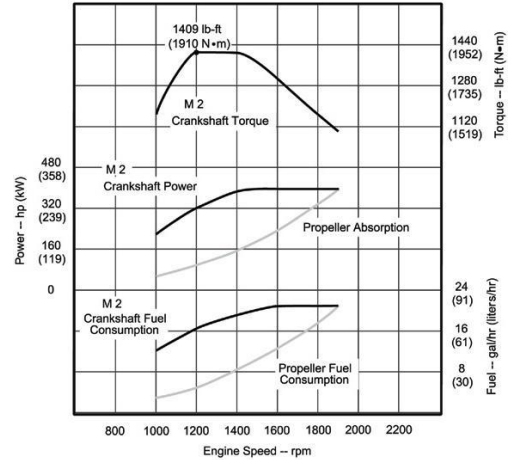
- Electronically controlled unit injectors provide precise fuel delivery with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection

Performance curve

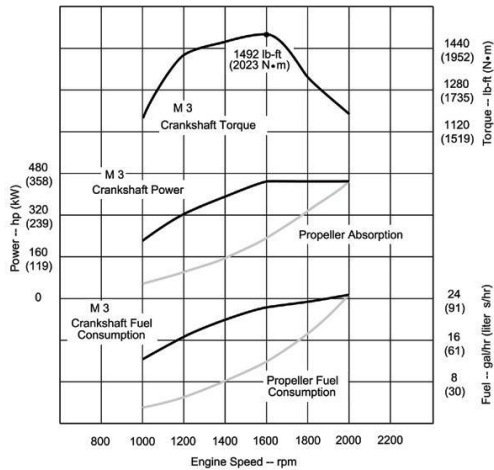
M1 PERFORMANCE CURVE



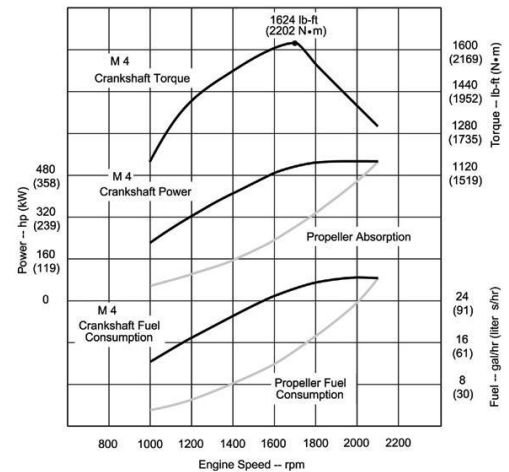
M2 PERFORMANCE CURVE



M3 PERFORMANCE CURVE



M4 PERFORMANCE CURVE



Performance data	M4	M3	M2	M1
Rated Power - kW (hp)	392 (526)	339 (455)	298 (400)	254 (341)
Rated Speed - rpm	2100	2000	1900	1800
Low Idle Speed - rpm	600	600	600	600
Peak Torque - Nm (ft-lb)	2202 (1624)	2023 (1492)	1910 (1409)	1910 (1409)
Peak Torque Speed - rpm	1700	1600	1200	1200
Fuel Consumption - L/h (gal/hr)	106.4 (28.1)	88.7 (23.4)	77.6 (20.5)	68.0 (18.0)

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