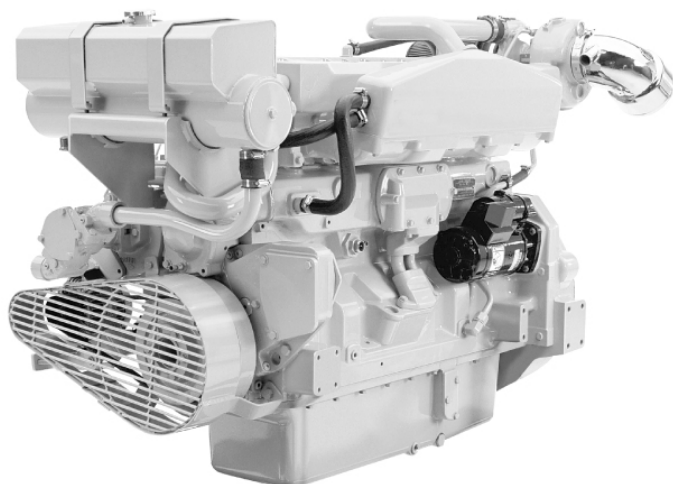


PowerTech™ **6081AFM** Marine Engine Specifications

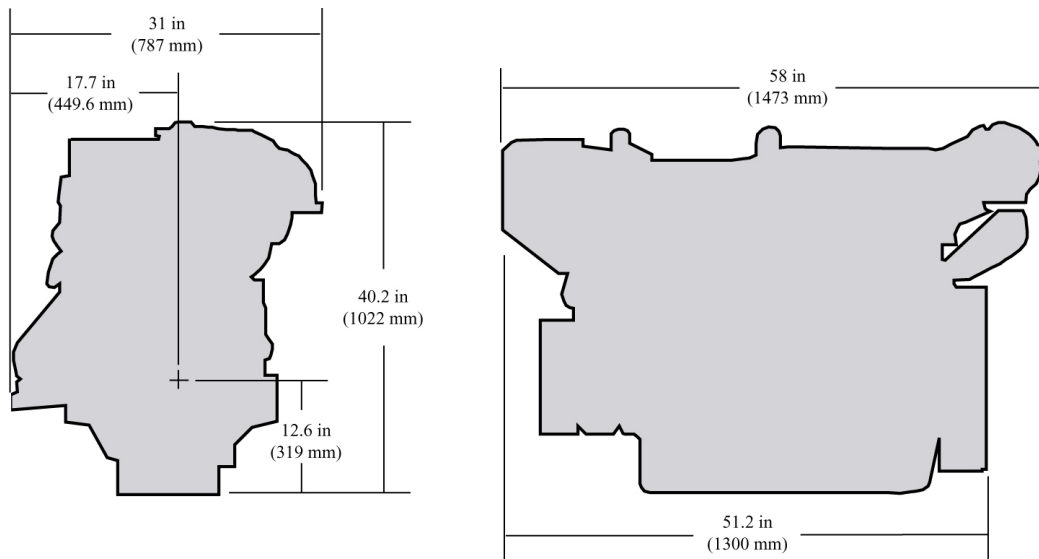


PERFORMANCE DATA

	M4	M3	M2	M1
Rated Gross Power - bhp (kW)	375 (280)	330 (246)	300 (224)	235 (175)
Rated Speed - rpm	2400	2300	2200	2100
Low Idle Speed - rpm	700	700	700	700
Peak Torque - lb-ft (N.m)	968 (1,312)	899 (1,219)	884 (1,199)	772 (1,046)
Peak Torque Speed - rpm	2,000	1,900	1,700	1,600
Fuel Consumption - gal/hr (L/h)				
2400	19.2 (72.5)	N/A	N/A	N/A
2300	16.5 (62.4)	16.5 (62.3)	N/A	N/A
2200	14.1 (54.5)	14.4 (54.5)	15.0 (56.6)	N/A
2100	12.4 (47.0)	12.4 (47.0)	12.9 (48.9)	11.6 (43.9)
2000	10.6 (40.0)	10.6 (40.0)	11.1 (42.0)	10.0 (37.7)
1800	7.6 (28.9)	7.6 (28.9)	8.1 (30.8)	7.2 (27.3)
1600	5.2 (19.8)	5.2 (19.8)	5.5 (20.8)	5.0 (18.9)
1400	3.7 (14.1)	3.7 (14.1)	3.9 (14.6)	3.5 (13.4)
1200	2.3 (8.8)	2.3 (8.8)	2.4 (9.2)	2.2 (8.3)
1000	1.6 (6.0)	1.6 (6.0)	1.6 (6.0)	1.5 (5.6)

Photographs may show non-standard equipment

DIMENSIONS



Propulsion & Auxiliary Power

GENERAL DATA

Model	6081AFM01	Length - in.(mm)	51.2 (1300)
Number of Cylinders	6	Width - in.(mm)	31 (787)
Displacement - L (cu.in.)	8.1 (496)	Height - in.(mm)	40.2 (1022)
Bore and Stroke - in. (mm)	4.56 x 5.06 (116 x 129)	Weight, dry - lb. (kg)	1876 (853)
Aspiration	Turbocharged and aftercooled	Maximum Installed Angle	
Engine Type	In-line, 4-cycle	Front Up - degrees	12
Compression Ratio	15.7:1	Front Down - degrees	0
Charge Air Cooling	Fresh water to Air		

FEATURES AND BENEFITS

Water-cooled turbocharger and exhaust manifold

- Provides cooler and quieter performance for vessel and crew
- Provides significant boost in efficiency and performance
- Internal coolant passages eliminate hoses and fittings that can leak or break

Replaceable wet-type cylinder liners

- Top liner cooling for longer life
- Cast and precision machined and hardened for long life
- Enables engine to be rebuilt to original factory specs within the hull

Corrosion resistant components

- Provides protection for the engine from the effects of seawater

Gear auxiliary drive

- Gear-driven auxiliary drive provides reliable power
- Can be used for wash-down pumps, hydraulic pumps, and misc. drives

Either side service

- Oil fill/dipstick combinations on either side
- Oil/fuel filters can be engine or remote mounted
- Application and service flexibility to provide installation convenience plus fast and easy maintenance

Poly-vee belt drive

- Poly-vee belt provides increased capacity and flexibility with reduced maintenance
- Belt guard designed for simple belt inspection and easy belt replacement

Heat exchanger

- High-capacity heat exchanger designed for reliable operation in adverse conditions
- Keel cooler or heat exchanger options provide application flexibility

High torque and low rated rpm

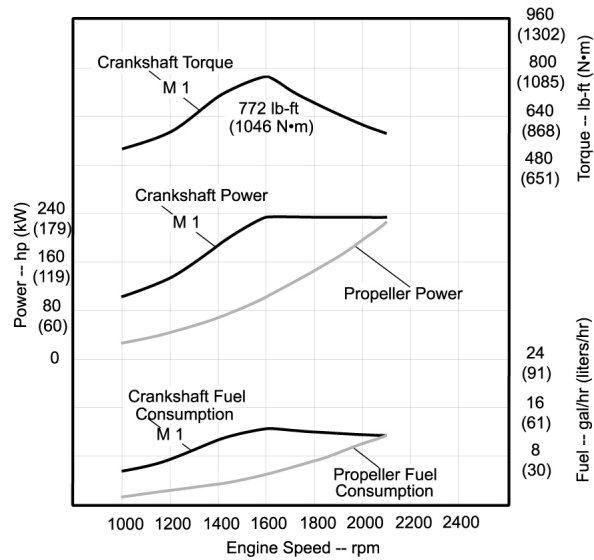
- Enables the engine to turn longer propellers more efficiently
- Provides good control and maneuverability
- Low rated rpm minimizes vibration and noise for crew comfort

Electronically Controlled

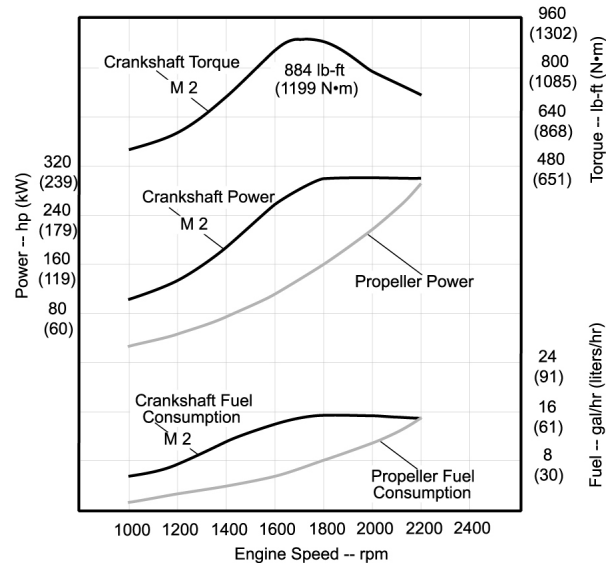
- Simplifies installation
- Protection by self diagnosis
- Excellent fuel economy
- Excellent throttle response

*Data based on keel cooled engine.
All values at rated speed and power with standard options unless otherwise noted.
Specifications and design subject to change without notice.*

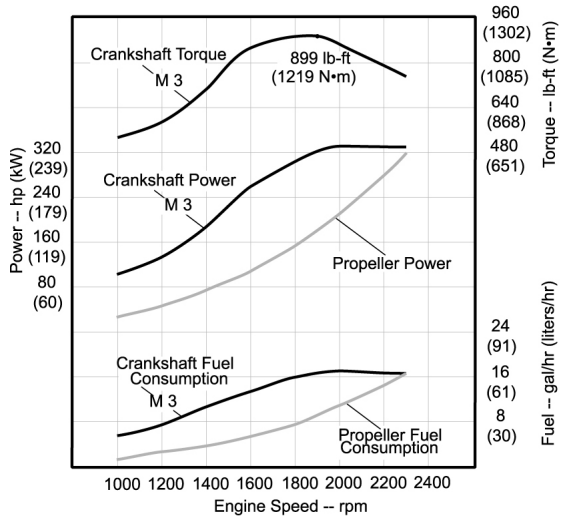
M1 PERFORMANCE CURVE



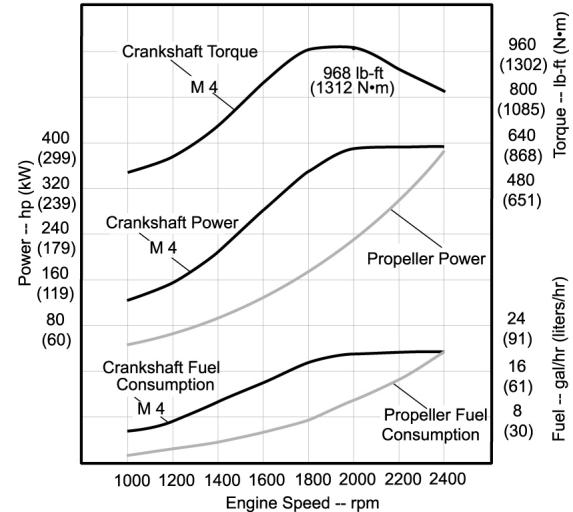
M2 PERFORMANCE CURVE



M3 PERFORMANCE CURVE



M4 PERFORMANCE CURVE



PERFORMANCE CURVE DEFINITIONS

Marine M1

For propulsion applications that may operate up to 24 hours a day at uninterrupted full power. These applications typically operate over 3,000 hours/year. M1 rating is ISO8665 "standard power" rating and the SAE J1228 "crankshaft power" rating.

Marine M2

For propulsion applications that may utilize full power up to 16 out of each 24 hours of operation. These applications typically operate at full power up to 65 percent of the time and accumulate as many as 3,000 hours/year.

Marine M3

For propulsion applications that may utilize full power no more than 4 out of each 12 hours of operation. These applications typically operate at full power up to 35 percent of the time and accumulate as many as 2,000 hours/year.

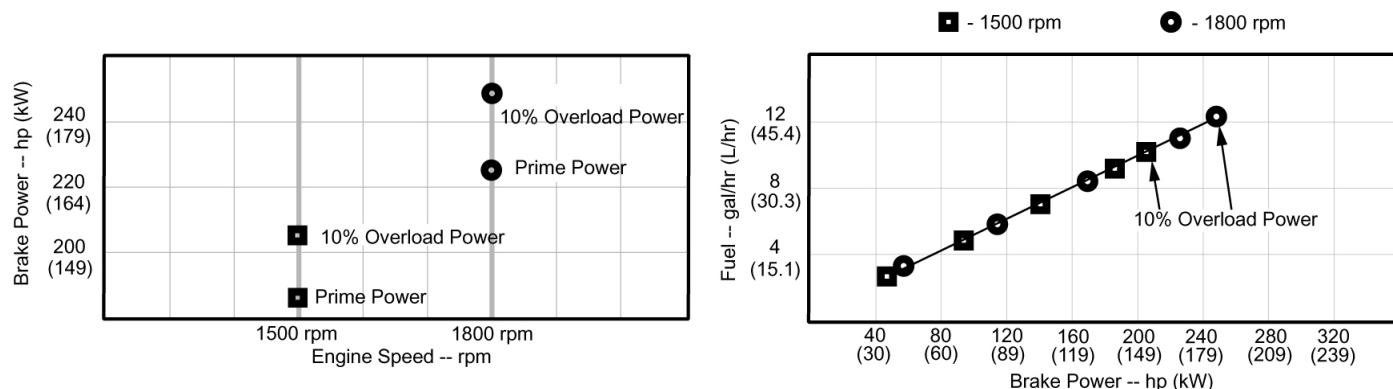
Marine M4

For propulsion applications that may utilize full power up to 1 out of each 12 hours of operation. These applications typically operate at full power up to 15 percent of the time and accumulate as many as 800 hours/year.

PowerTech™ 6081AFM Marine Engine Specifications

Generator Set Applications

PERFORMANCE CURVE



SYSTEM DATA

Electrical System	12 volt	24 volt
Recommended Battery Capacity		
CCA at 32 deg. F (0 deg. C) - amp	800	570

Air System	1,800 rpm	1,500 rpm
Engine Air Flow - cu.ft/min (cu.m/min)	496 (14.1)	364 (10.3)

Exhaust System	1,800 rpm	1,500 rpm
Dry Exhaust Outlet Dia. - in.(mm)	4.0 (101.6)	4.0 (101.6)
Wet Exhaust Outlet Dia. - in.(mm)	4.5 (114)	4.5 (114)

Cooling System	1,800 rpm	1,500 rpm
Coolant Flow - gal/min (L/min)	57 (216)	48 (180)

Sea Water System	1,800 rpm	1,500 rpm
Sea Water Pump Flow - gal/min (L/min)	32 (130)	29 (180)

Fuel System	1,800 rpm	1,500 rpm
Governor Type	Mechanical	Mechanical
Governor Regulation - %	5	7
Fuel consumption - gal/hr (L/hr)	11.0 (41.8)	9.2 (35.0)

Lubrication System	1,800 rpm	1,500 rpm
Total engine Oil Capacity		
With Filters-qt. (L)	33.8 (32)	33.8 (32)
Engine Crankcase Vent System	Open	Open

PERFORMANCE DATA

	1,800 rpm	1,500 rpm
10% Overload Engine Power	248 (185)	205 (153)
Rated Engine Power - hp (kW)	225 (168)	186 (139)
Low Idle speed - rpm	800	800
BMEP - psi (kPa)	200 (1337)	198 (1367)

FUEL CONSUMPTION

	1,800 rpm	1,500 rpm
25% Power - gal/hr (L/h)	3.4 (12.9)	2.7 (10.4)
50% Power - gal/hr (L/h)	5.8 (22.0)	4.8 (18.2)
75% Power - gal/hr (L/h)	8.4 (31.6)	7.0 (26.5)
100% Power - gal/hr (L/h)	11.0 (41.8)	9.2 (35.0)
10% Overload Power - gal/hr (L/h)	12.3 (46.4)	10.2 (38.7)

*Data based on keel cooled engine.
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