

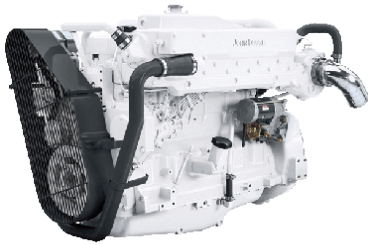
PowerTech

6068TFM Diesel Engine

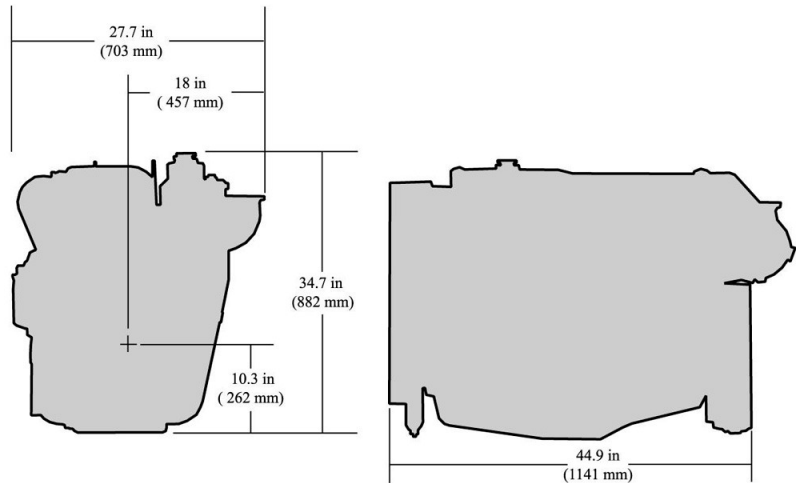
Marine Generator Drive Engine Specifications



Dimensions



6068TFM shown



Certifications

- Bureau Veritas
- Det Norske Veritas
- EPA Tier 2
- IMO MARPOL Annex VI
- Lloyd's Register

General data

Model	6068TFM76	Length - mm (in)	1141 (44.9)
Number of cylinders	6	Width - mm (in)	703 (27.7)
Displacement - L (cu in)	6.8 (415)	Height, Centerline to Top-- mm. (in)	620 (24.4)
Bore and Stroke-- mm (in)	107 x 127 (4.21 x 5.00)	Height, Centerline to Bottom-- mm. (in)	262 (10.3)
Compression Ratio	17.0:1	Weight, dry-- kg (lb)	730 (1609)
Engine Type	In-line, 4- Cycle	Maximum Installed Angle	Front Up – degrees 9 Front Down – degrees 0
Aspiration	Turbocharged		

Features and benefits

Watercooled Turbocharger and Exhaust

- 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

- 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

Heat Exchanger or Keel Cooled

- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Keel cooler or heat exchanger options provide application flexibility

Fuel System

- Electronically controlled rotary fuel injection pump with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection

System data	1800 rpm	1500 rpm
Air system		
Engine air flow - m ³ /min (ft ³ /min)	6.9 (243.7)	10.7 (377.9)
Exhaust system		
Dry - mm (in)	75 (3.0)	75 (3.0)
Wet - mm (in)	90 (3.5)	90 (3.5)
Cooling system		
Coolant flow - L/min (gal/min)	125 (33.0)	116 (30.6)
Sea water system		
Pump flow - L/min (gal/min)	84 (22.2)	70 (18.5)
Fuel system		
Governor type	Electronic	Electronic
Governor regulation - %	7-10	7-10
Total fuel flow - L/hr (gal/hr)	113 (29.9)	109 (28.8)

Performance data	1800 rpm	1500 rpm
10% overload engine Power - kW (hp)	121 (162.3)	98 (131.4)
Prime engine power - kW (hp)	110 (147.5)	89 (119.4)
Low idle speed - rpm	1150	1150
BMEP - kPa (psi)	1080 (157)	1049 (152)

Performance data

Hz (rpm)	Generator efficiency %	Keel cooled		Power factor	Calculated gen-set rating	
		(no fan)			kW	kVA
50 (1500)	88-92	--	--	0.8	78-82	98-103
60 (1800)	88-92	--	--	0.8	97-101	121-126

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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.*