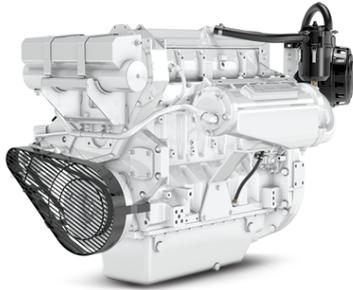


# PowerTech™

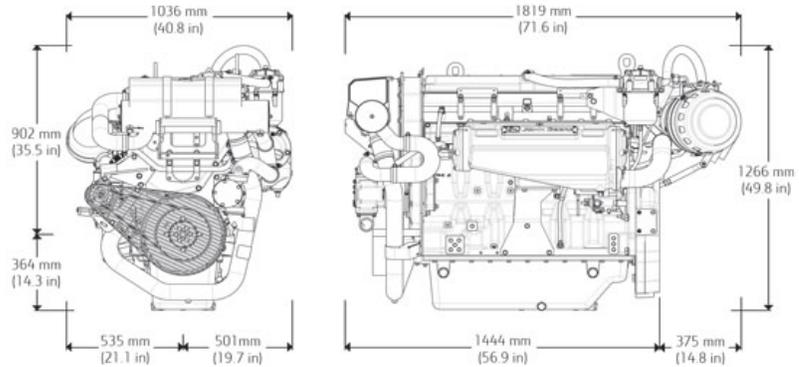
## 6135AFM85 Diesel Engine

Marine Generator Drive Engine Specifications



6135AFM85 shown

### Dimensions



### Certifications

EPA Commercial Marine Tier 3  
IMO MARPOL Annex VI Compliant

### General data

Model	6135AFM85	Length - mm (in)	1819 (71.6)
Number of cylinders	6	Width - mm (in)	1036 (40.8)
Displacement - L (cu in)	13.5 (824)	Height, Centerline to Top-- mm. (in)	902 (35.5)
Bore and Stroke-- mm (in)	132 x 165 (5.20 x 6.50)	Height, Centerline to Bottom-- mm. (in)	364 (14.3)
Compression Ratio	16.0 : 1	Weight, dry-- kg (lb)	1410 (3109)
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

#### Optional Low RPM Operation

- A lower speed option provides the user the ability to start the engine without going to the gen-set rated speed and allows the user to clutch in an accessory that may be driven by the engine.

#### 4-Valve Cylinder Head

- Excellent airflow through 4-valve cylinder head delivers greater low-speed torque and better transient response time.

#### Electronic Unit Injectors (EUI)

- The EUI fuel system provides higher injection pressures. It also controls fuel injection timing and provides precise control for start, duration, and end of injection.

#### Water-cooled Exhaust Manifold

- Integrated components eliminate external hoses and fittings that can leak or break. Wet exhaust manifold creates a cooler and quieter environment for passengers and crew.

#### Replaceable Cylinder Liners

- Replaceable wet-type cylinder liners are precision-machined and hardened for long life. Allows engine to be rebuilt to original specifications.

#### Electronic Engine Control Unit (ECU)

- Advanced fault code diagnostics and customizable engine protections ensure reliability and uptime. Provides highly customizable features and trim to integrate your vessel.

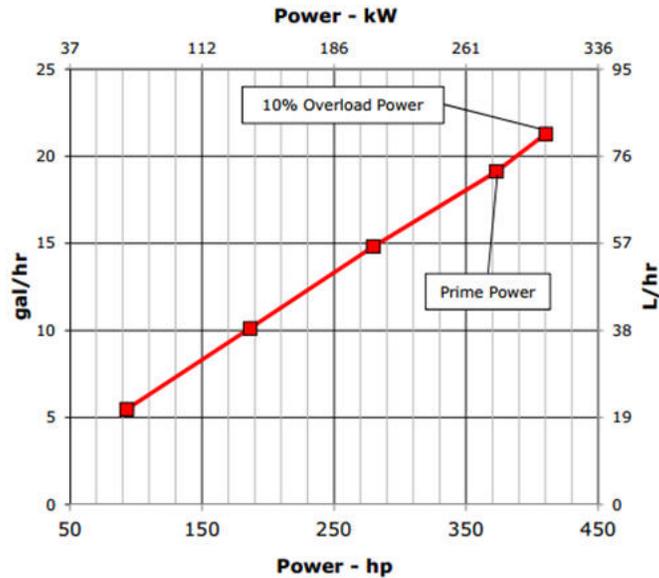
#### Keel-cooled or Heat Exchanger

- Closed cooling system in keel-cooled engine option eliminates the need for a sea strainer, seawater pump, or anodes. Heat exchanger option offers a lighter, more compact, and simpler engine installation.

#### Multiple Service Options

- Either-side oil fill/dipstick combinations and remote oil and fuel filter options are available for easier service access.

## Performance curve



System data	1800 rpm	1500 rpm
<b>Air system</b>		
Engine air flow - m <sup>3</sup> /min (ft <sup>3</sup> /min)	34.8 (1229.0)	27.6 (974.7)
<b>Exhaust system</b>		
Dry - mm (in)	127.0 (5.0)	127.0 (5.0)
Wet - mm (in)	139.7 (5.5)	139.7 (5.5)
<b>Cooling system</b>		
Coolant flow - L/min (gal/min)	215 (56.8)	177 (46.8)
<b>Sea water system</b>		
Pump flow - L/min (gal/min)		
<b>Fuel system</b>		
Governor type	Electronic	Electronic
Governor regulation - %	Isochronous or Droop	Isochronous or Droop
Total fuel flow - L/hr (gal/hr)	417 (110.2)	417 (110.2)

Performance data	1800 rpm	1500 rpm
10% overload engine Power - kW (hp)	367 (492.2)	306 (410.4)
Prime engine power - kW (hp)	334 (447.9)	278 (372.8)
Low idle speed - rpm	1000	1000
BMEP - kPa (psi)	NA	NA

## Performance data

Hz (rpm)	Generator efficiency %	Keel cooled		Power factor	Calculated gen-set rating	
		(no fan)			kW	kVA
50 (1500)	88-92	--	--	0.8	245-256	306-320
60 (1800)	88-92	--	--	0.8	294-307	367-384