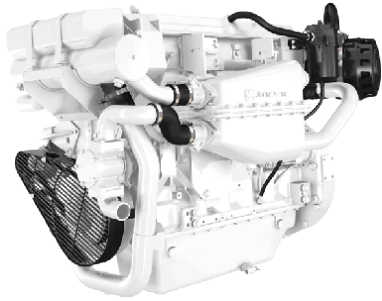


# PowerTech

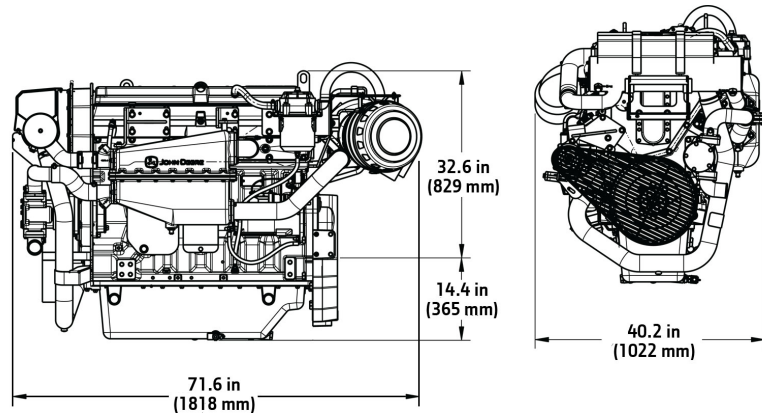
## 6135SFM Diesel Engine

Marine Generator Drive Engine Specifications



6135SFM shown

### Dimensions



### Certifications

- American Bureau of Shipping
- Bureau Veritas
- Det Norske Veritas
- EU 2002/88/EC
- IMO MARPOL Annex VI
- Lloyd's Register
- US EPA Marine Tier 2 Compliant

### General data

Model	6135SFM75	Length - mm (in)	1818 (71.6)
Number of cylinders	6	Width - mm (in)	1022 (40.2)
Displacement - L (cu in)	13.5 (824)	Height, Centerline to Top-- mm. (in)	829 (32.6)
Bore and Stroke-- mm (in)	132 x 165 (5.20 x 6.50)	Height, Centerline to Bottom-- mm. (in)	365 (14.4)
Compression Ratio	16.0 : 1	Weight, dry-- kg (lb)	1525 (3362)
Engine Type	In-line, 4-cycle	Maximum Installed Angle	Front Up – degrees 12 Front Down – degrees 0
Aspiration	Air-to-sea water		

### Features and benefits

#### High Pressure Common Rail Fuel System

- Higher (33%) injection pressures, up to 1600 bar (23,000 psi)
- Variable injection pressure and timing control

#### 4-Valve Cylinder Head

- New cylinder head with 4-valve design provides increased air flow resulting in higher low speed torque and better transient response time

#### John Deere Electronic Control Systems

- Built in controls eliminates the need for costly add on engine warning systems and associated components
- Service diagnostics and error codes automatically stored for later retrieval & ease of diagnostics
- Built in engine synchronization feature

#### 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

#### High Torque and Low Rated RPM

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

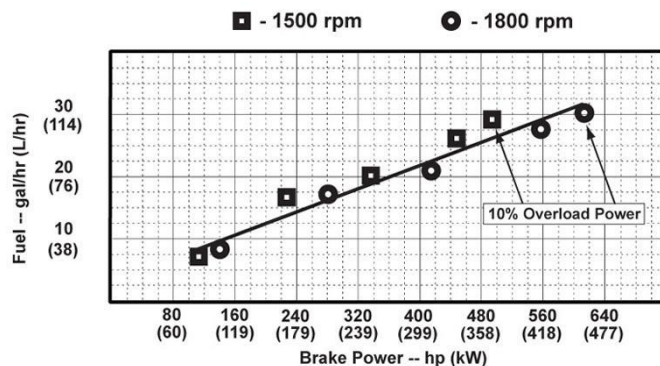
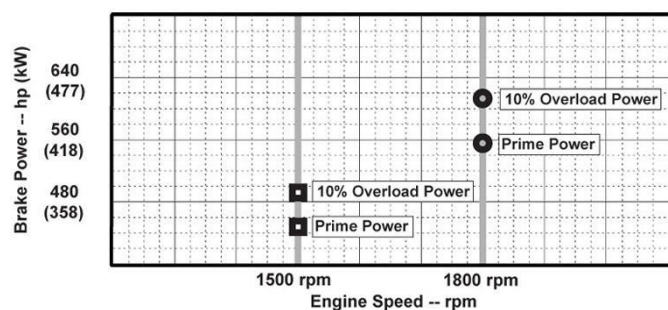
#### Heat Exchanger

- High-capacity heat exchanger designed for reliable operation in adverse conditions

#### High Power Density

- High power density offers more power in a smaller package

## 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)	36.6 (1292.5)	27.9 (985.3)
<b>Exhaust system</b>		
Dry - mm (in)	152 (6.0)	152 (6.0)
Wet - mm (in)	204 (8.0)	204 (8.0)
<b>Cooling system</b>		
Coolant flow - L/min (gal/min)	303 (80.0)	253 (66.8)
<b>Sea water system</b>		
Pump flow - L/min (gal/min)	341 (90.1)	284 (75.0)
<b>Fuel system</b>		
Governor type	Electronic	Electronic
Governor regulation - %	Isochronous or Droop	Isochronous or Droop
Total fuel flow - L/hr (gal/hr)	187 (49.4)	168 (44.4)

Performance data	1800 rpm	1500 rpm
10% overload engine Power - kW (hp)	458 (614.2)	367 (492.2)
Prime engine power - kW (hp)	416 (557.9)	334 (447.9)
Low idle speed - rpm	1000	1000
BMEP - kPa (psi)	2047 (297)	1972 (286)

## Performance data

Hz (rpm)	Generator efficiency %	Keel cooled		Power factor	Calculated gen-set rating	
		(no fan)			kW	kVA
50 (1500)	88-92	--	--	0.8	293-306	366-383
60 (1800)	88-92	--	--	0.8	366-383	458-479

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