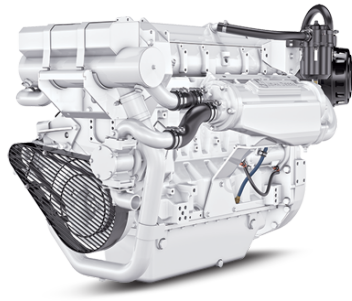


# PowerTech™

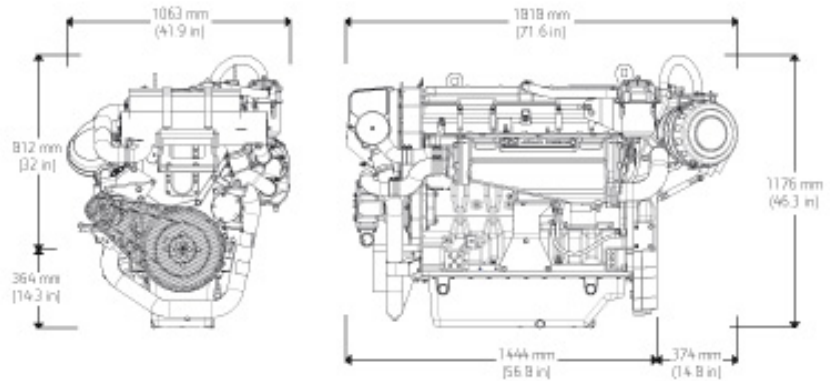
## 6135SFM85 Diesel Engine

Marine Generator Drive Engine Specifications



6135SFM85 shown

### Dimensions



Dimensions shown in mm (in) may vary according to options selected. Contact your distributor for more information.

### Emissions

EPA Commercial Marine Tier 3 @ 1800 rpm / 60Hz

IMO MARPOL Annex VI Compliant

### General Data (Based on Standard Option Configuration)

Model	6135SFM85	Length maximum - mm (in)	1818 (71.6)
Number of cylinders	6	Length to rear face of flywheel housing - mm (in)	1444 (56.9)
Displacement - L (cu in)	13.5 (824)	Flywheel housing SAE	1
Bore and Stroke-- mm (in)	132 x 165 (5.20 x 6.50)	Height - mm (in)	1176 (46.3)
Engine Type	In-line, 4-cycle	Height, crankshaft centerline to top - mm (in)	812 (32.0)
Aspiration	Air-to-sea water	Height, crankshaft centerline to bottom - mm (in)	364 (14.3)
		Weight, dry - kg (lb)	1426 (3144)

### Classification Societies

ABS,BV,DNV-GL,LR

\*SOLAS and other accessories available. Contact your distributor for details.

### 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.

#### Heat Exchanger

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

#### Multiple Service Options

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

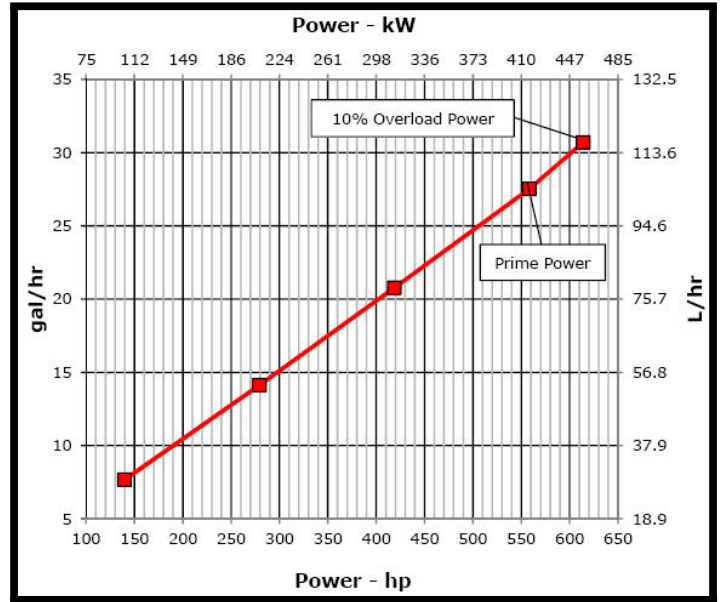
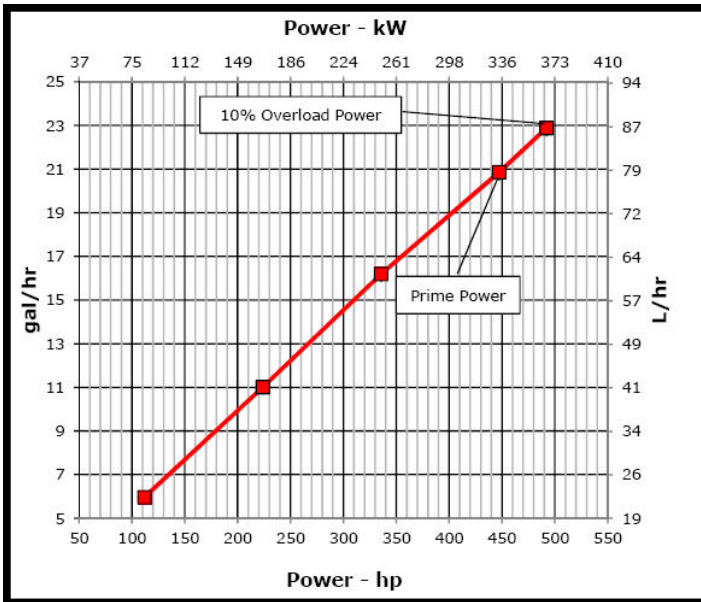
#### Turbocharged with Air-to-Seawater Aftercooling

- Cooler turbocharger operation enables higher ratings and efficiencies for applications that require high power or speed.

## Performance Curves

50Hz (1500 rpm)

60Hz (1800 rpm)



Performance data points shown at 25%, 50%, 75%, 100% (prime), and 110% (overload) power.

### Calculated Generator-Set Rating

Rated speed Hz (rpm)	Generator efficiency %	Engine power		Power factor	Calculated generator set rating	
		Prime*			Prime*	
		kW	hp		kWe	kVA
50 (1500)	88-92	334	448	0.8	294-307	367-384
60 (1800)	88-92	416	558	0.8	366-383	457-479

\*Prime power is the normal power an engine is capable of delivering with a variable load for an unlimited number of hours per year. This rating conforms to ISO 3046 and SAE J1995. This rating incorporates a 10 percent overload capability, and conforms to ISO 8528 prime power.

See your John Deere Power Systems engine distributor or marine dealer for more detailed performance information.