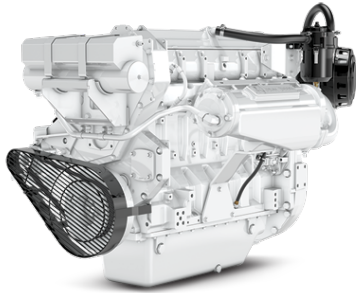


# PowerTech™

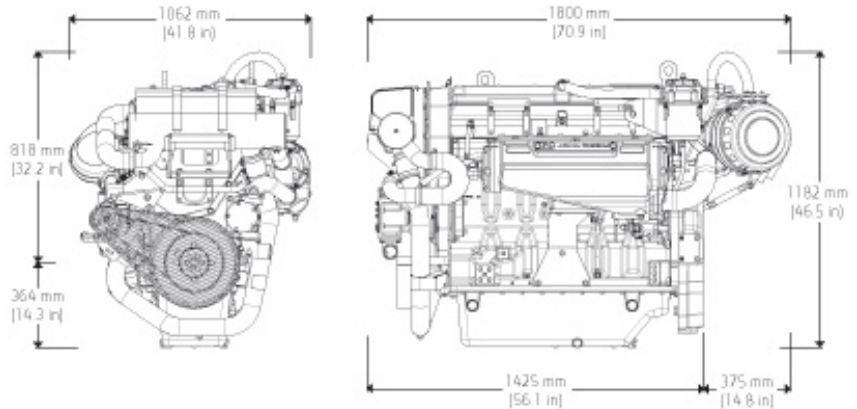
## 6135AFM85 Diesel Engine

Marine Generator Drive Engine Specifications



6135AFM85 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 Tier II Compliant

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

Model	6135AFM85	Length maximum - mm (in)	1800 (70.9)
Number of cylinders	6	Length to rear face of flywheel housing - mm (in)	1425 (56.1)
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)	1182 (46.5)
Engine Type	In-line, 4-cycle	Height, crankshaft centerline to top - mm (in)	818 (32.2)
Aspiration	Turbocharged and air-to-coolant aftercooled	Height, crankshaft centerline to bottom - mm (in)	364 (14.3)
		Weight, dry - kg (lb)	1410 (3109)

### 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.

#### 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.

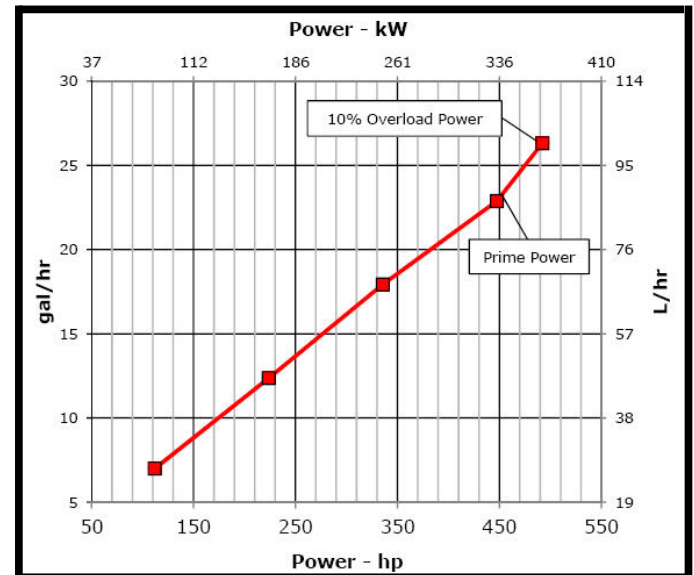
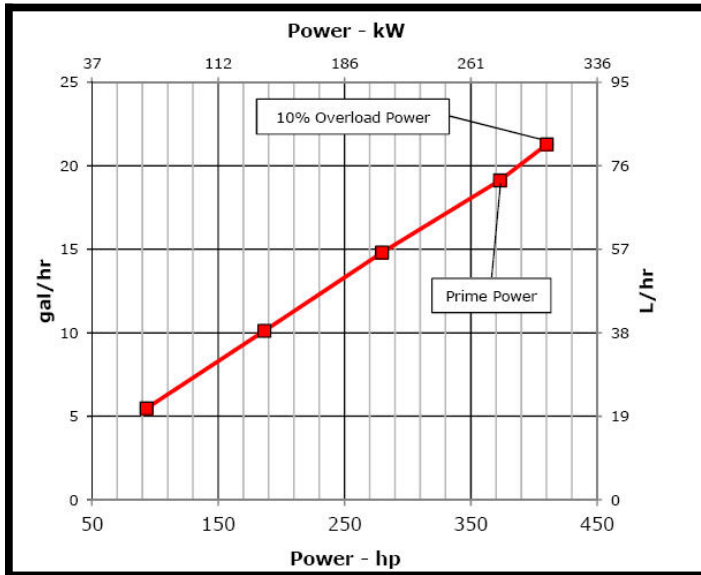
#### Multiple Service Options

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

## Performance 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	278	373	0.8	245-256	306-320
60 (1800)	88-92	334	448	0.8	294-307	367-384

\*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.