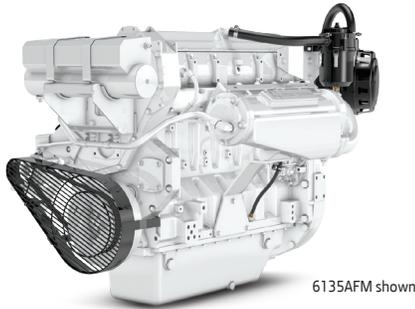
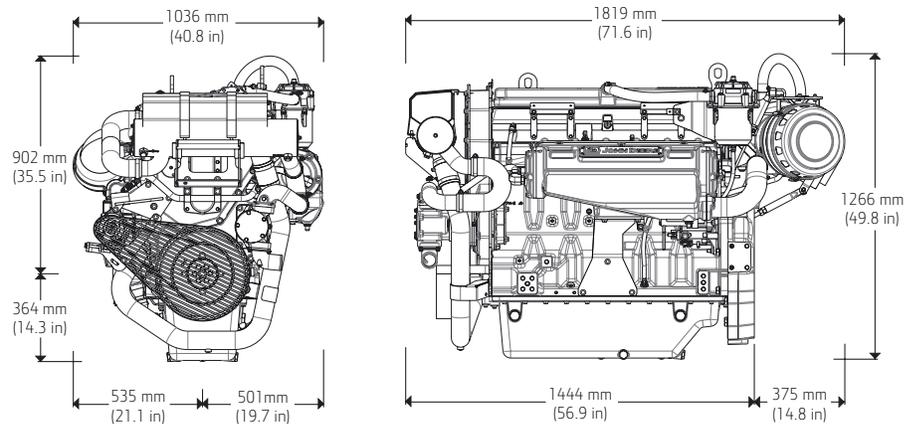


PowerTech™ 6135AFM85 Diesel Engine

Marine Generator Drive Engine Specifications



Dimensions



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

Emissions

EPA Marine Tier 3 (60 Hz only)
IMO MARPOL Annex VI Compliant

General Data (based on standard option configuration)

Model	6135AFM85
Number of cylinders	6
Displacement – L(cu in)	13.5 (824)
Bore and Stroke – mm (in)	132 x 165 (5.2 x 6.5)
Engine Type	In-line, 4-cycle
Aspiration	Turbocharged and air-to-coolant aftercooled

Length maximum – mm (in)	1819 (71.6)
Length to rear face of flywheel housing – mm (in) TBD	1444 (56.9)
Flywheel housing SAE	SAE #1
Width maximum – mm (in)	1036 (40.8)
Crankshaft centerline right – mm (in)	501 (19.7)
Crankshaft centerline left – mm (in)	535 (21.1)
Height – mm (in)	1266 (49.8)
Height, crankshaft centerline to top – mm (in)	902 (35.5)
Height, crankshaft centerline to bottom – mm (in)	364 (14.3)
Weight, dry – kg (lb)	1410 (3108)

Classification Societies

SOLAS – Accessories available*
ABS, DNV, BV, LR

*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

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 installation for the vessel

Multiple service options

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

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
- 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
- Wet exhaust manifold creates a cooler and quieter environment for passengers and crew

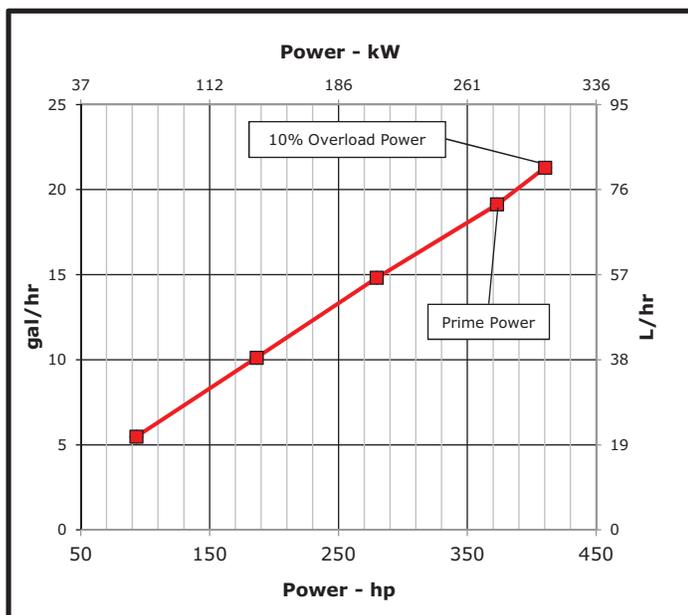
Replaceable cylinder liners

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

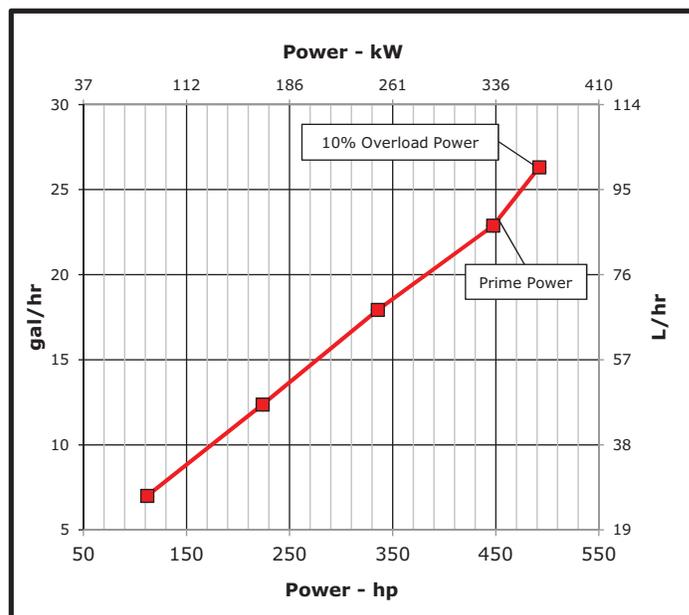
Photographs may show non-standard equipment.

Performance Curves

50 Hz (1500 rpm)



60 Hz (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.

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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.