PowerTech ™ 6090SFM85 Diesel Engine

Marine Generator Drive Engine Specifications



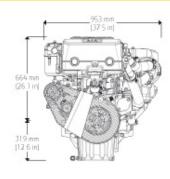


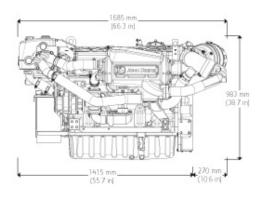
6090SFM85 shown

Emissions

EPA Commercial Marine Tier 3
IMO MARPOL Annex VI Compliant

Dimensions





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

General Data (Based on Standard Option Configuration)

Model	6090SFM85
Number of cylinders	6
Displacement - L (cu in)	9.0 (549)
Bore and Stroke mm (in)	118.4 x 136 (4.66 x 5.35)
Engine Type	In-line, 4-cycle
Aspiration	Air-to-sea water

Classification Societies

ABS, BV, CCS, DNV-GL, LR

Length maximum - mm (in)	1685 (66.3)
Length to rear face of flywheel housing - mm (in)	1415 (55.7)
Flywheel housing SAE	2
Height - mm (in)	983 (38.7)
Height, crankshaft centerline to top - mm (in)	664 (26.1)
Height, crankshaft centerline to bottom - mm (in)	319 (12.6)
Weight, dry - kg (lb)	1056 (2328)

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.

High-pressure Common-rail (HPCR)

 The HPCR fuel system provides variable common-rail pressure, multiple injections, and controls fuel injection timing and provides precise control for the 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 provides 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.

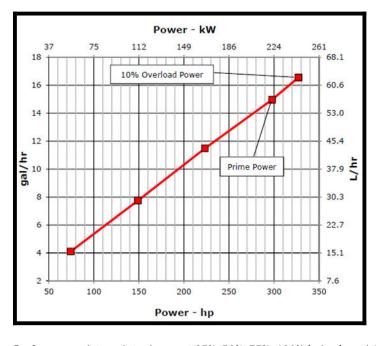
Turbocharged with Air-to-Seawater Aftercooling

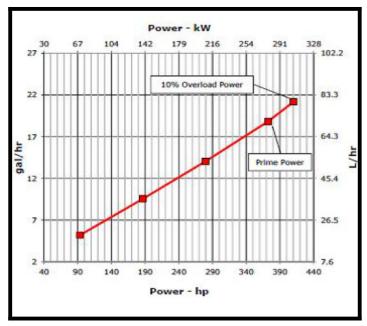
 Cooler turbocharger operation enables higher ratings and efficiencies for applications that require high power or speed.

^{*}SOLAS and other accessories available. Contact your distributor for details.

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 Prime*		Power factor	Calculated generator set rating				
	Prime*				Prime*				
		kW	hp		kWe	kVA			
50 (1500)	88-92	222	298	0.8	195-204	244-255			
60 (1800)	88-92	278	373	0.8	24 5-256	306-320			

^{*}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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