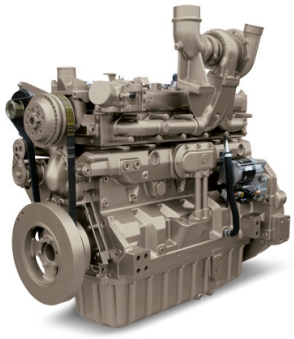
PowerTech ™
6090HF475 Diesel Engine

Industrial Engine Specifications

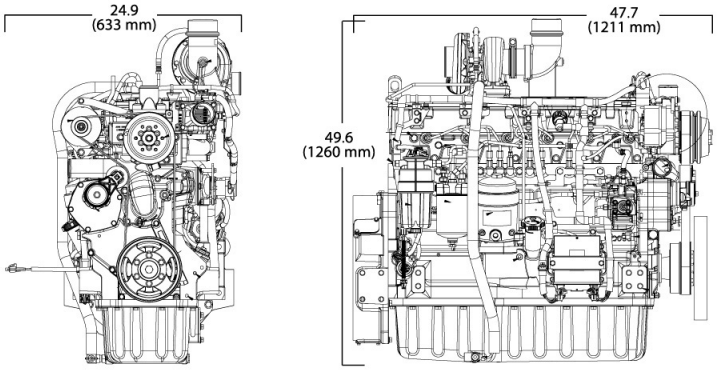


6090HF475 shown

Certifications

EU Stage II

Engine dimensions



Dimensions may vary according to options selected. Call your distributor for more information.

General data

Model	6090HF475	Length - mm (in)	1211 (47.7)
Number of cylinders	6	Width - mm (in)	633 (24.9)
Displacement - L (cu in)	9.0 (549)	Height-- mm (in)	1260 (49.6)
Bore and Stroke-- mm (in)	118.4 x 136 (4.66 x 5.35)	Weight, dry-- kg (lb)	1096.8 (2418)
Compression Ratio	16.0 : 1		
Engine Type	In-line, 4-Cycle		
Aspiration	Turbocharged and air-to-air aftercooled		

Performance data range

Application ratings	Intermittent	Heavy Duty	Continuous
Rated power/Rated speed	261-286 kW(350-384 hp) @2200rpm	239 kW(321 hp) @2200rpm	172-219 kW(231-296 hp) @2200rpm
Peak power	298 kW (400 hp) @2000rpm	272 kW (365 hp) @2000rpm	206-248 kW (276-333 hp) @1800-2000rpm
Power bulge	1-14% @ 2000rpm	14% @ 2000rpm	13-20% @ 1800-2000rpm
Peak torque	1474 N.m (1087ft-lb) @1600rpm	1349 N.m (995ft-lb) @1600rpm	1200-1228 N.m (885-906ft-lb) @1600rpm

The Industrial Intermittent engine power rating is for applications that operate at varying loads and speeds, and do not fit the Industrial Heavy-Duty rating information.

Some applications require Industrial Heavy-Duty engine power ratings. Please contact your John Deere Pow er Systems engine distributor for more information.

The Industrial Continuous engine power rating is for applications that operate with constant load and speed, except for short periods during startup or shutdown.

Power output is within + or - 5% at standard SAE J 1995 and ISO 3046.

Features and benefits

Fixed Geometry Turbocharger

- Fixed geometry turbochargers are sized for a specific power range and optimized to provide excellent performance across the entire torque curve. They are also designed to maximize fuel economy between the engine's rated speed and peak torque.

High Pressure Common Rail (HPCR) Fuel System

- The HPCR fuel system provides variable common-rail pressure, multiple injections, and higher injection pressures up to 1,600 bar (23,000 psi). It also controls fuel injection timing and provides precise control for the start, duration, and the end of injection.

4-Valve Cylinder Head

- The 4-valve cylinder head provides excellent airflow by utilizing a U-flow design.

Air-to-Air Aftercooled

- This is the most efficient method of cooling intake air to help reduce engine emissions while maintaining low-speed torque, transient response time, and peak torque. It enables an engine to meet emissions regulations with better fuel economy and the lowest installed costs.

John Deere Electronic Engine Controls

- El ectronic engine controls monitor critical engine functions, providing warning and/or shutdown to prevent costly engine repairs and eliminate the need for add-on governing components, all lowering total installed costs.

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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.