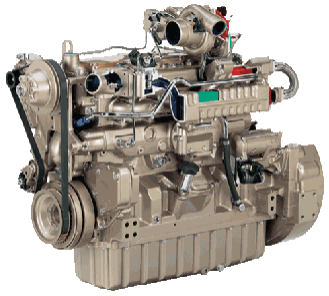
PowerTech ™ Plus 6090HF485 Diesel Engine

Generator Drive Engine Specifications

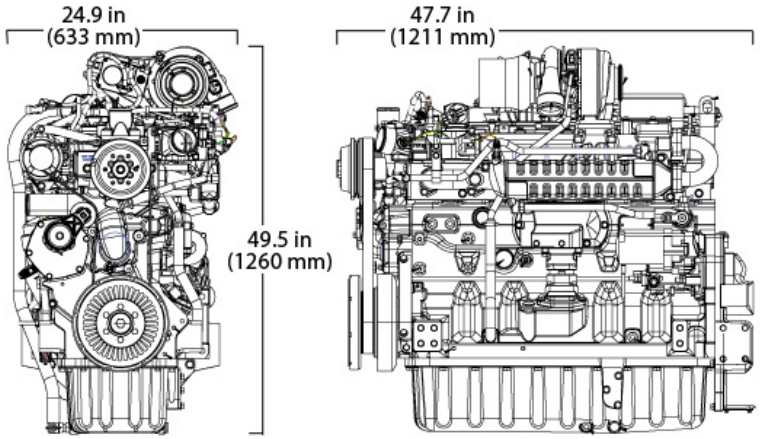


6090HF485 shown

Certifications

CARB
EPA Tier 3
EU Stage III A

Dimensions



General data

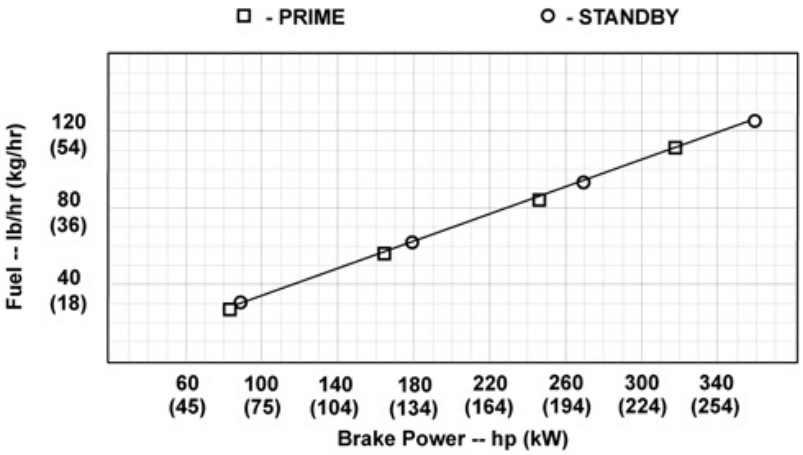
Model	6090HF485
Number of cylinders	6
Displacement - L (cu in)	9.0 (549)
Bore and Stroke-- mm (in)	118.4 x 136 (4.66 x 5.35)
Compression Ratio	16.0 : 1
Engine Type	In-line, 4-Cycle
Aspiration	Turbocharged and air-to-air aftercooled

Length - mm (in) to rear of block	1211 (47.7)
Width - mm (in)	633 (24.9)
Height-- mm (in)	1260 (49.6)
Weight, dry-- kg (lb)	1096.8 (2418)

Performance data

Prime power at 60 Hz (1800 rpm)	245 kW (328 hp)
Standby power at 60 Hz (1800 rpm)	269 kW (359 hp)

Performance curve



Performance data

Hz (rpm)	Generator efficiency %	Rated fan power		Power factor	Calculated generator set output			
					Prime		Standby	
		kW	hp		kWe	kVA	kWe	kVA
60 (1800)	90-94	16	21	0.8	213-223	267-279	235-245	294-307

Features and benefits

Jet Fuel Capable

- The John Deere jet fuel capable engines run on military, arctic, and aviatio fuel, including Jet A, Jet A-1, JP-5, and JP-8. If you need to switch back to diesel fuel, just fill up the tank and go.

Cooled Exhaust Gas Recirculation-EGR

- Cools and mixes measured amounts of cooled exhaust gas with incoming fresh air to lower peak combustion temperatures, thereby reducing NOx

Variable geometry turbocharger (VGT)

- Varies exhaust pressure based on load and speed to ensure proper EGR flow and best-in-class fuel economy.

High-Pressure Common-Rail (HPCR) and Engine Control Unit (ECU)

- 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 end of injection.

4-Valve Cylinder Head

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

Air-to-Air Aftercooled

- This is the most efficient method of cooling intake air to help reduce engine emissions. It enables an engine to meet emissions regulations with better fuel economy and the lowest installed costs

Compact Size

- Horsepower/displacement ration is best-in-class
- Lower installed cost
- Mounting points are the same as previous engine models

John Deere Electronic Engine Controls

- Electronic 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.

Additional Features

- Self adjusting poly-vee fan drive
- Single-piece low-friction steel piston
- Low-pressure fuel system with electrical transfer pump and "auto-prime" feature
- Directed top-liner cooling

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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.