

PowerTech™ 6081H Diesel Engine Specifications

PERFORMANCE DATA

Rated Power

Heavy Duty/Continuous 275 hp (205 kW) @ 2200 rpm

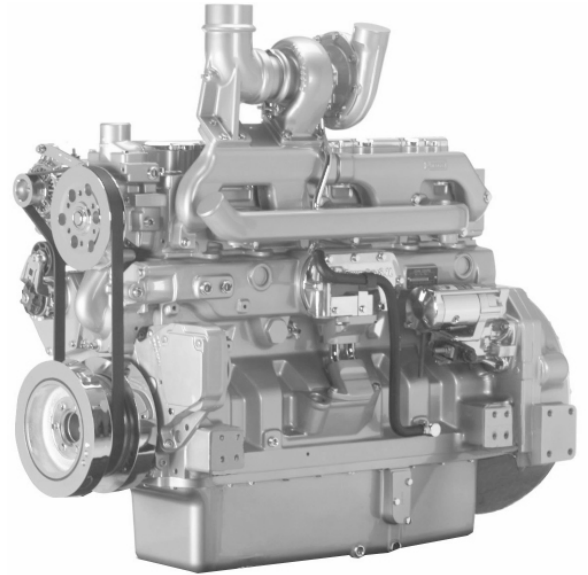
Peak Torque

Heavy Duty 885 lb-ft (1200 N.m) @ 1500 rpm

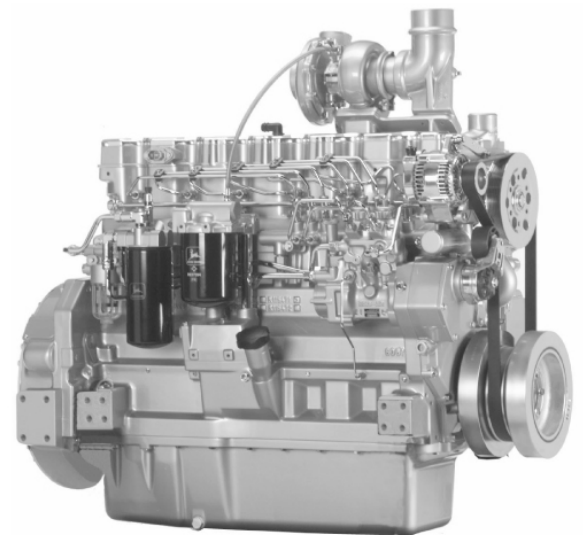
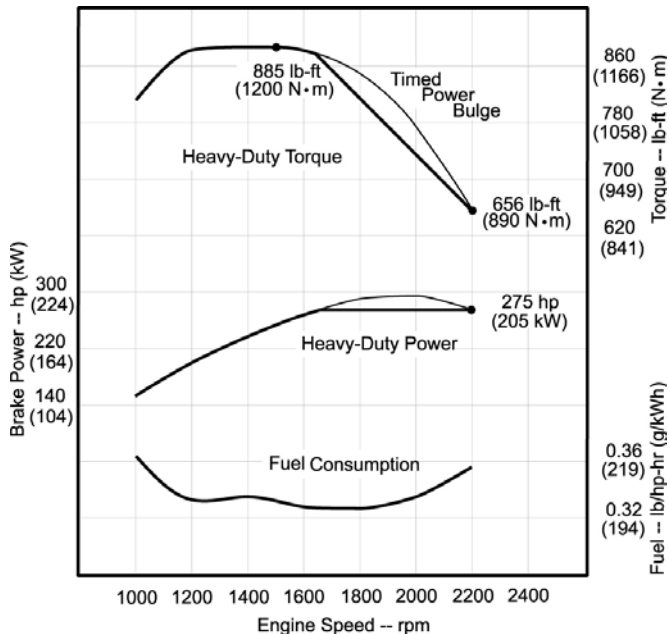
Fuel Economy

BSFC 0.357 lb/hp-hr (217 g/kWh) @ 2200 rpm

RATED BHP is the power rating for variable speed and load applications where full power is required intermittently.
CONTINUOUS BHP is the power rating for applications operating under a constant load and speed for long periods of time.
HEAVY DUTY - see application ratings/definitions, engine performance curves
POWER OUTPUT is within + or - 5% at standard SAE J 1995 and ISO 3046.
TIER 2 EMISSIONS CERTIFICATIONS: CARB, EPA, and EU.



PERFORMANCE DATA



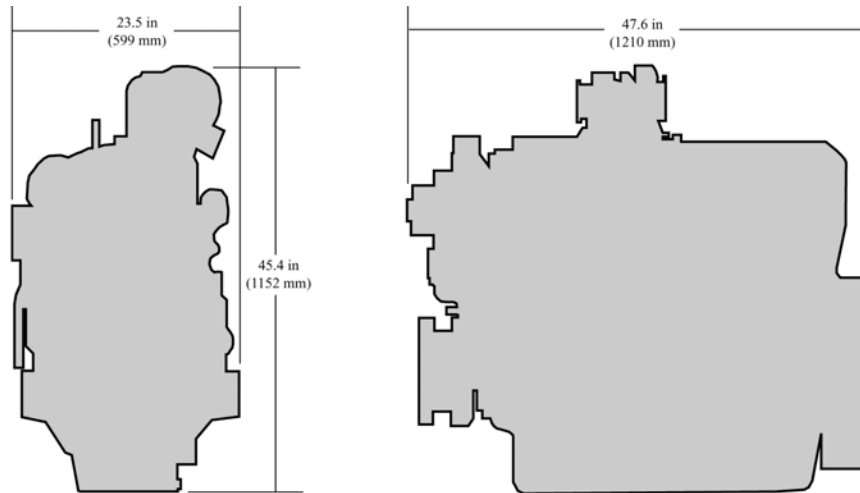
Photographs may show non-standard equipment

PowerTech™
6081H Diesel Engine
 Specifications

GENERAL DATA

Model	6081HF070	Aspiration	Air-to-Air
Number of Cylinders	6	Length - in. (mm)	47.6 (1210)
Displacement - L (cu.in)	8.1 (496)	Width - in. (mm)	23.5 (599)
Bore and Stroke - in. (mm)	4.56 x 5.06 (116 x 129)	Height - in. (mm)	45.4 (1152)
Compression Ratio	15.7:1	Weight - lb. (kg)	1711 (776)
Engine Type	In-line, 4-cycle		

DIMENSIONS



FEATURES AND BENEFITS

Directed Top-Liner Cooling

- Directing coolant to upper end of the liner reduces liner temperatures by up to 100 degrees F (54 degrees C), improving power cylinder durability and head gasket life, and reducing oil consumption and emissions

SAE J1939 Standard Communication Link

- Industry standard, which provides an interface with vehicle systems, like the transmission, hydraulics and various accessory drives minimizing machine complexity and reducing vehicle total installed cost

John Deere Electronic Controls

- John Deere electronically controlled fuel systems monitor critical engine functions and either derates or shuts down (override capability provided) an engine to prevent costly engine repairs
- Built-in controls eliminate need for costly add-on engine warning/shutdown systems and associated devices
- Service diagnostics and error codes automatically stored for later retrieval, increasing machine uptime
- Performance connector part of engine wiring harness which allows for programming of multiple power curves and droop or isochronous governor regulation

Either-side service

- Combination oil fill/dipstick available on either side of the engine, greatly simplifying engine installation

Gear auxiliary drive

- Left hand gear auxiliary drive available which provides up to 60 hp (45 kW), intermittent

Self-adjusting poly-vee fan drive

- Self-adjusting, eight-groove, poly-vee fan drive provides multiple fan drive ratios and heights that can be matched to specific application requirements
- Poly-vee fan design provides more than twice the drive capacity of comparable vee-belts

Additional Features

- 8.1 engine includes gear-driven water pump, improved accessory mounting, gear-driven auxiliary drive, self-adjusting poly-vee fan drive, air compressors, and high-mount A/C compressor options

Optional Rear PTO

- Rear PTO is an integral part of the flywheel housing and provides a means for driving medium/large hydraulic pump(s), and air compressors
- Available in SAE #1 or SAE #2 flywheel-housing configuration for dry applications
- 1.3:1 output ratio allows the use of smaller, higher speed hydraulic pumps
- Gear train, pump drives, and flanged output drive are capable of up to 300hp/224kW (750 ft-lbs/1018 N.m torque) on an intermittent basis
- Right-hand side pad standard with optional left-hand side pad
- Standard SAE "C" and optional "B", "D" mounting pads and flange output drives

Specifications and design subject to change without notice



John Deere Power Systems
 3801 W. Ridgeway Ave.
 PO Box 5100
 Waterloo, IA 50704-5100
 Phone (800) 533-6446
 Fax (319) 292-5075

John Deere Power Systems
 Usine de Saran
 La Foulonnerie - B.P. 11013
 45401 Fleury-les-Aubrais Cedex-France
 Phone (33) 2 38 82 61 19
 Fax (33) 2 38 82 60 00