



# JOHN DEERE

## PowerTech™ **6125H** Diesel Engine Specifications

### PERFORMANCE DATA

#### Rated Power

Intermittent 600 hp (448 kW) @ 2100 rpm  
Continuous 500 hp (373 kW) @ 2100 rpm

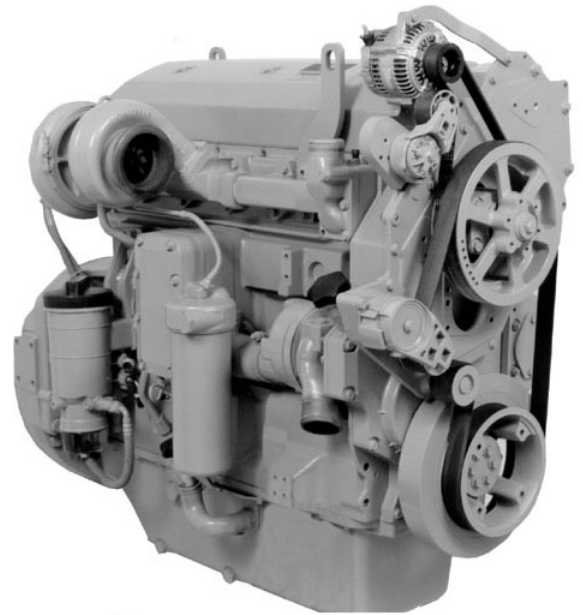
#### Peak Torque

Intermittent 1878 lb-ft (2546 N.m) @ 1600 rpm

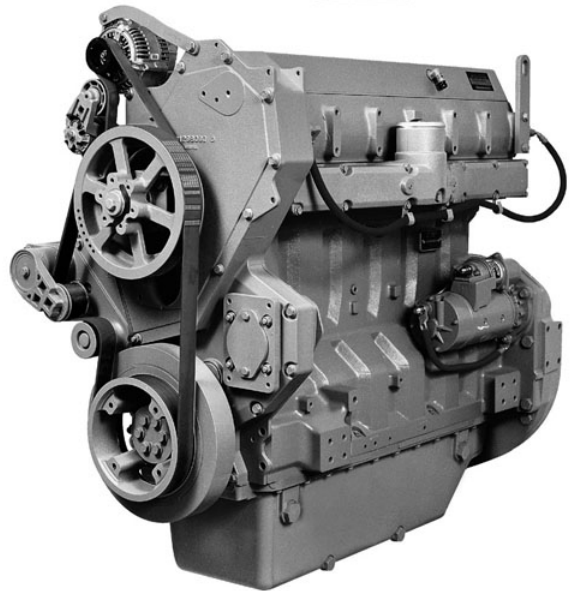
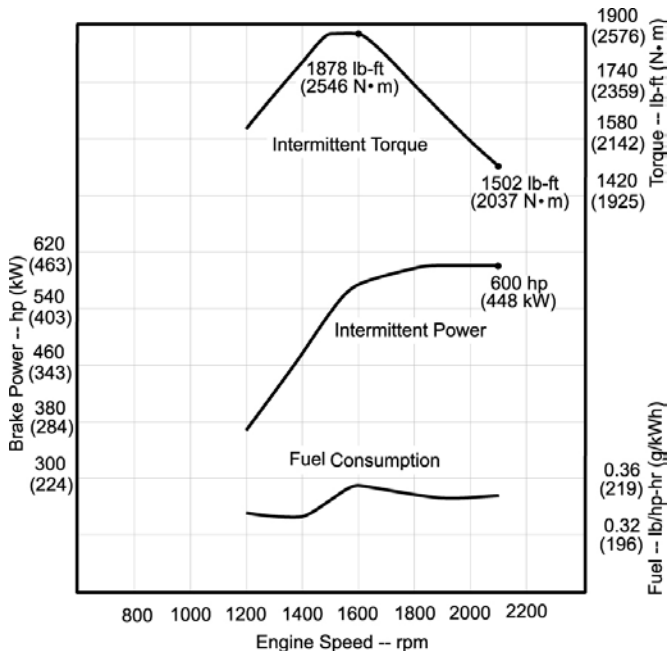
#### Fuel Economy

BSFC 0.348 lb/hp-hr (212 g/kWh) @ 2100 rpm

RATED BHP is the power rating for variable speed and load applications where full power is required intermittently. POWER OUTPUT is within + or - 5% at standard SAE J 1995 and ISO 3046  
TIER 2 EMISSIONS CERTIFICATIONS: CARB, EPA, AND EU



### PERFORMANCE CURVE



*Preliminary data  
Photographs may show non-standard equipment*

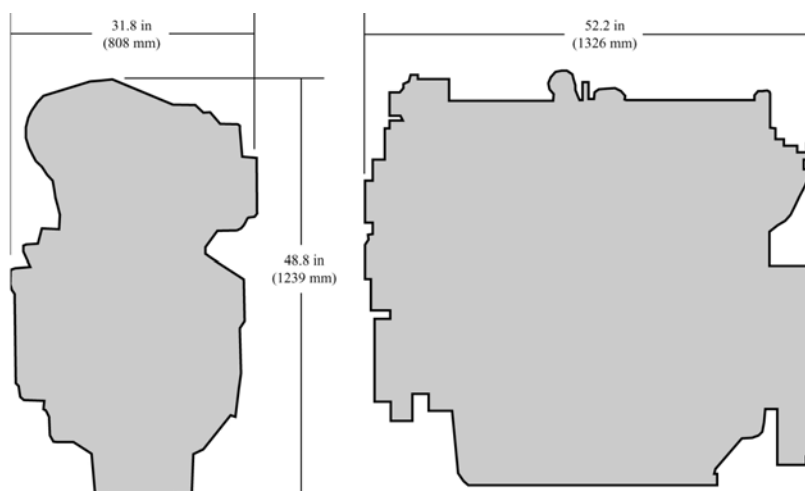


# PowerTech™ 6125H Diesel Engine Specifications

## GENERAL DATA

Model	6125HF070	Aspiration	Air to Air
Number of Cylinders	6	Length - in (mm)	52.2 (1326)
Displacement - L (cu.in)	12.5 (766)	Width - in (mm)	31.8 (808)
Bore and Stroke - in. (mm)	5.0 x 6.5 (127 x 165)	Height - in (mm)	48.8 (1239)
Compression Ratio	14.7:1	Weight - lb (kg)	2657 (1205)
Engine Type	In-line, 4-cycle		

## DIMENSIONS



## FEATURES AND BENEFITS

### Articulated Two-Piece Piston

- Articulated two-piece piston uses high-strength steel crown to handle higher horsepower

### Directed Top-Liner Cooling

- Directing coolant to upper end of liner reduces liner temperatures by up to 130 degrees F (72 degrees C), improving power cylinder durability and head gasket life, and reducing oil consumption and emissions

### Air Compressors and AC Compressors

- Factory installed air compressors and AC Compressors mean low installation cost

### Gear-Driven Auxiliary Drive

- Provides up to 57 kW (80 hp) to run optional equipment such as hydraulic pumps, air compressors, or steering pumps

### 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 the 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

### 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 the installed cost

### Self-Adjusting, Poly-vee Accessory and Fan Drives

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

### 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 configuration for dry or wet 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 300 hp/224 kW (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