### Dimensions

- Length: 31.8 in (808 mm)
- Width: 48.8 in (1239 mm)
- Height: 52.2 in (1326 mm)

### Certifications

- CARB
- EPA Commercial Marine
- EPA Tier 2
- EU Stage II

### General data

<table>
<thead>
<tr>
<th>Model</th>
<th>6125HF070</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Displacement - L (cu in)</td>
<td>12.5 (763)</td>
</tr>
<tr>
<td>Bore and Stroke - mm (in)</td>
<td>127 x 165 (5.00 x 6.50)</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>17:1</td>
</tr>
<tr>
<td>Engine Type</td>
<td>In-line, 4- Cycle</td>
</tr>
</tbody>
</table>

Aspiration: Turbocharged and air-to-air aftercooled

- Length - mm (in): 1326 (52.2)
- Width - mm (in): 808 (31.8)
- Height - mm (in): 1239 (48.8)
- Weight, dry - kg (lb): 1205 (2657)

Intermittent BHP is the power rating for variable speed and load applications where full power is required intermittently.

Heavy duty - see application ratings/definitions, engine performance curves.

Continuous BHP is the power rating for applications operating under a constant load and speed for long periods of time.

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

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intermittent rated speed</td>
<td>317 kW (425 hp) @ 2100 rpm</td>
</tr>
<tr>
<td>Peak power</td>
<td>350 kW (469 hp) @ 1900 rpm</td>
</tr>
<tr>
<td>Power bulge %</td>
<td>10% @ 1900 rpm</td>
</tr>
<tr>
<td>Peak torque</td>
<td>1947 N.m (1436 ft-lb) @ 1500 rpm</td>
</tr>
<tr>
<td>Torque rise %</td>
<td>35% @ 1500 rpm</td>
</tr>
</tbody>
</table>

Features and benefits

Articulated Two-Piece Piston
- Articulated two-piece piston uses high-strength steel crown to handle the higher horsepower

Directed Top-Liner Cooling
- Directing coolant to upper end of liners reduces liner temperatures by up to 130 degrees Fahrenheit or 72 degrees Celsius, 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 a lower installed cost

Gear-Driven Auxiliary Drive
- Provides up to 80 hp (60 kW) 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 components
- 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 vehicle total installed cost

Self-Adjusting, Poly-vee Accessory and Fan Drives
- Self-adjusting, eight-groove, poly-vee fan drive provides multiple fan drive ratios and fan heights that can be matched to specific application requirements
- Self adjusting, eight-groove, poly-vee accessory drive for alternator and air conditioning compressor
- Poly-vee design provides more than twice the 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 pumps(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/1017 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

All values at rated speed and power with standard options unless otherwise noted. Specifications and design subject to change without notice.