



JOHN DEERE

6068TF150

POWERTECH

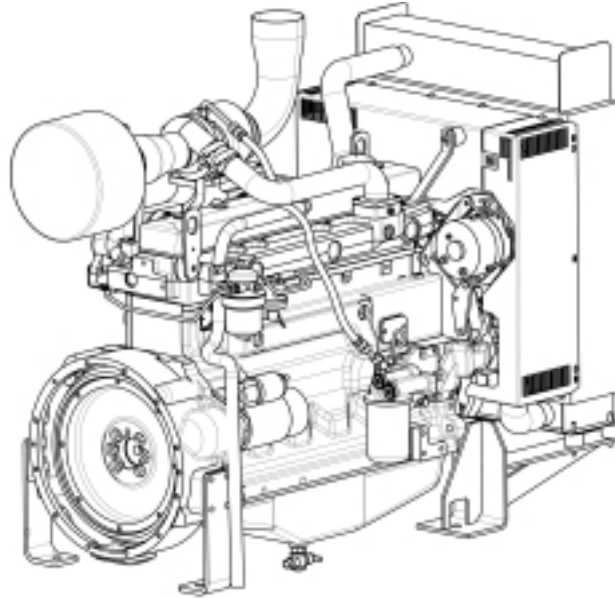
SPECIFICATIONS

For Variable Speed

Power Units

Tier-1 Emission Certifications:

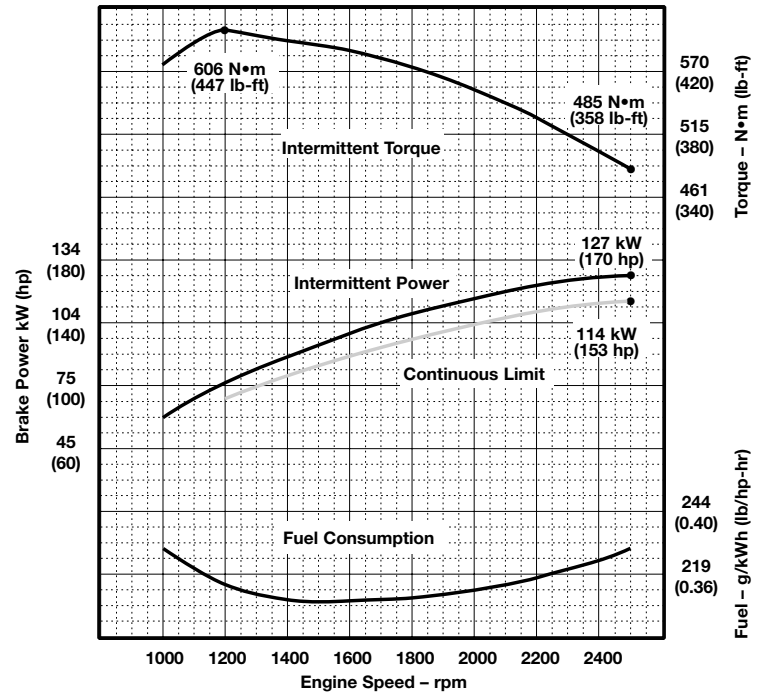
CARB; EPA; EU



Performance Data

| | |
|---|---------------------|
| Gross Rated Power (without fan) – kW (hp) | [C]..... 114 (153) |
| | [I] 127 (170) |
| Rated Speed – rpm | 2500 |
| Peak Torque – N•m (lb-ft) | [C]..... 540 (398) |
| | [I] 606 (447) |
| Peak Torque Speed – rpm | 1200 |
| Low Idle Speed – rpm | 850 |
| BMEP – kPa (psi) | [C]..... 807 (117) |
| | [I] 898 (130) |
| Friction Power @ Rated Speed – kW (hp) | 34 (46) |
| Altitude Capability – m (ft) | 2300 (7500) |
| Air: Fuel Ratio | [C]..... 32.1 : 1 |
| | [I] 30 : 1 |
| Smoke @ Rated Speed – Bosch No. | [C]..... < 2 |
| | [I]..... < 2 |
| Noise – dB(A) @ 1 m | [C] 96.0 |
| | [I] 96.5 |

| Engine Speed rpm | Contin. Limit kW (hp) | Intermit. Power kW (hp) | Intermit. Torque N•m (lb-ft) | BSFC g/kWh (lb/hp-hr) |
|------------------|-----------------------|-------------------------|------------------------------|-----------------------|
| 2500 | 114 (153) | 127 (170) | 485 (358) | 230 (0.377) |
| 2400 | 113 (151) | 126 (169) | 500 (369) | 225 (0.369) |
| 2200 | 110 (147) | 122 (163) | 530 (391) | 218 (0.358) |
| 2000 | 104 (139) | 116 (155) | 554 (409) | 213 (0.349) |
| 1800 | 97 (130) | 108 (145) | 573 (423) | 210 (0.344) |
| 1600 | 89 (119) | 99 (133) | 590 (435) | 209 (0.343) |
| 1400 | 79 (106) | 88 (118) | 602 (440) | 210 (0.344) |
| 1200 | 68 (91) | 76 (102) | 606 (447) | 215 (0.353) |
| 1000 | - | 60 (80) | 575 (424) | 229 (0.376) |



Gross power guaranteed within + or - 5% at SAE J1995

and ISO 3046 conditions:

77 °F (25 °C) air inlet temperature

29.31 in.Hg (99 kPa) barometer

104 °F (40 °C) fuel inlet temperature

0.853 fuel specific gravity @ 60 °F (15.5 °C)

Conversion factors:

Power: kW = hp x 0.746

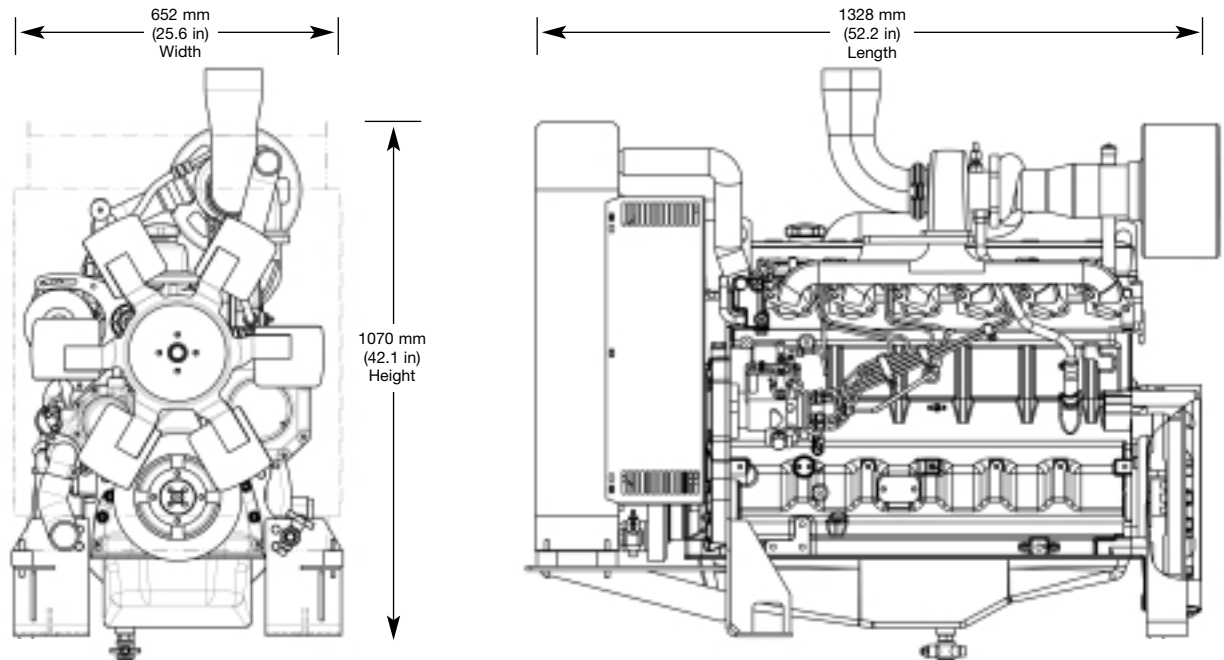
Fuel: 1 gal = 7.1 lb, 1 L = 0.85 kg

Torque: N•m = lb-ft x 1.356

Photographs may show non standard equipment.



Power Unit Specification Data



General Data

| | |
|---|-------------------------|
| Model | 6068TF150 |
| Number of cylinders | 6 |
| Bore and Stroke – mm (in.)..... | 106 x 127 (4.19 x 5.00) |
| Displacement – dm ³ (in ³) | 6.8 (414) |
| Compression Ratio..... | 17.0 : 1 |
| Valves per Cylinder – Intake/Exhaust | 1 / 1 |
| Firing Order | 1-5-3-6-2-4 |
| Combustion System | Direct Injection |
| Engine type | In-line, 4-cycle |
| Aspiration | Turbocharged |
| Engine Crankcase Vent System | Open |
| Engine Crankcase Pressure – kPa (in.H ₂ O) | 0.5 (2) |

Physical Data

| | |
|--|-------------|
| Length – mm (in.) | 1328 (52.2) |
| Width – mm (in.) | 652 (25.6) |
| Height – mm (in.) | 1070 (42.1) |
| Weight, dry – kg (lb) | 655 (1444) |
| (Includes flywheel housing, flywheel, & electrics) | |
| Center of gravity location | |
| From Rear Face of block (X-axis) – mm (in.) | 433 (17.0) |
| Right of Crankshaft (Y-axis) – mm (in.) | -1 (-0.05) |
| Above Crankshaft (Z-axis) – mm (in.) | 157 (6.2) |
| Max. Allow. Static Bending Moment at Rear | |
| Face of Flywhl Hsg w/ 5-G Load – N•m (lb-ft) | 814 (600) |
| Thrust Brng. Load Limit (Forward) – N (lb) [C] | 2224 (500) |
| [I] | 4003 (900) |

Electrical Data

| | |
|---|--------|
| Recommended Battery Capacity (CCA) | |
| 12 Volt System – Amp | 800 |
| 24 Volt System – Amp | 570 |
| Maximum Allowable Starting Circuit Resistance | |
| 12 Volt System – Ohm | 0.0012 |
| 24 Volt System – Ohm | 0.002 |
| Starter Rolling Current – 12 Volt System | |
| At 0°C (32°F) – Amp | 920 |
| At -30°C (-22°F) – Amp | 1300 |
| Starter Rolling Current – 24 Volt System | |
| At 0°C (32°F) – Amp | 600 |
| At -30°C (-22°F) – Amp | 700 |

Air System

| | |
|--|------------|
| Maximum Allowable Temperature Rise | |
| Ambient Air to Engine Inlet – °C (°F) | 8 (15) |
| Maximum Air Intake Restriction | |
| Dirty Air Cleaner – kPa (in. H ₂ O) | 6.25 (25) |
| Clean Air Cleaner – kPa (in. H ₂ O) | 3 (12) |
| Engine Air Flow – m ³ /min (ft ³ /min) [C] | 12.5 (441) |
| [I] | 12.9 (455) |

Exhaust System

| | |
|---|-------------|
| Exhaust Flow – m ³ /min (ft ³ /min) [C] | 29.4 (1038) |
| [I] | 30.8 (1087) |
| Exhaust Temperature – °C (°F) [C] | 460 (860) |
| [I] | 476 (889) |
| Max. Allow. Back Pressure – kPa (in.H ₂ O)..... | 7.5 (30) |
| Recommended Exhaust Pipe Dia – mm (in.) | 102 (4.0) |

Cooling System

| | |
|---|-----------|
| Thermostat Start to open – °C (°F) | 82 (180) |
| Thermostat Fully Open – °C (°F)..... | 94 (202) |
| Power Unit Coolant Capacity – L (qt) | 28 (29.5) |
| Minimum Air to Boil temperature – °C (°F) | 47 (117) |

Fuel System

| | |
|---|-------------|
| Fuel Injection Pump | Stanadyne |
| Governor Regulation | 7 – 10% |
| Governor Type | Mechanical |
| Fuel Consumption – kg/hr (lb/hr) [C]..... | 26.6 (58.5) |
| [I] | 29.3 (54.5) |
| Total Fuel Flow – kg/h (lb/h) | 104 (229) |
| Maximum Fuel Transfer Pump Suction – m (ft) | 0.9 (3) |
| Fuel Filter Micron Size @ 98% Efficiency | 8 |

Lubrication System

| | |
|---|-----------|
| Oil Pressure at Rated Speed – kPa (psi) | 345 (50) |
| Oil Pressure at Low Idle – kPa (psi)..... | 105 (15) |
| In Pan Oil Temperature – °C (°F) | 115 (240) |
| Oil Pan Capacity, Low – L (qt)..... | 17 (18) |
| Oil Pan Capacity, High – L (qt) | 18 (19) |
| Total Engine Oil Capacity with filter – L (qt) | 19 (20) |
| Engine Angularity Limits, Any Direction – degrees [C] | 20 |
| [I] | 30 |

Specifications and design subject to change without notice.



John Deere Power Systems
La Foulonnerie
 Usine de Saran – B.P. 11013
 45401 Fleury les Aubrais Cedex – France

Tel.: (33) 2 38 82 61 19
 Fax: (33) 2 38 84 62 66
 http: www.deere.com/jdpower

