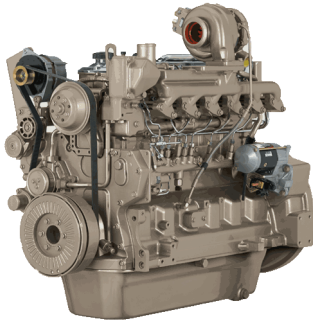


PowerTech™

6068HF475 Diesel Engine

Generator Drive Engine Specifications



6068HF475 shown

Engine dimensions



Dimensions may vary according to options selected. Call your distributor for more information.

Certifications

Non-Emissions Certified

General data

| | | | |
|---------------------------|---|-----------------------------------|-------------|
| Model | 6068HF475 | Length - mm (in) to rear of block | 1161 (45.7) |
| Number of cylinders | 6 | Width - mm (in) | 627 (24.7) |
| Displacement - L (cu in) | 6.8 (415) | Height-- mm (in) | 1044 (41.1) |
| Bore and Stroke-- mm (in) | 106 x 127 (4.17 x 5.00) | Weight, dry-- kg (lb) | 587 (1294) |
| Compression Ratio | 17.0:1 | | |
| Engine Type | In-line, 4-Cycle | | |
| Aspiration | Turbocharged and air-to-air aftercooled | | |

Performance data range

| Rated speed | Engine power | | | | Generator efficiency | Rated fan power | | Power factor | Calculated generator set output | | | |
|-------------|--------------|-----|---------|-----|----------------------|-----------------|----|--------------|---------------------------------|---------|---------|---------|
| | Prime | | Standby | | | kW | hp | | Prime | | Standby | |
| | kW | hp | kW | hp | | | | | kWe* | kVA | kWe | kVA |
| 50(1500) | 188 | 252 | 207 | 278 | 88-92 | 10.4 | 14 | 0.8 | 156-163 | 195-204 | 173-181 | 216-226 |
| 60(1800) | 191 | 256 | 210 | 282 | 89-93 | 10.5 | 14 | 0.8 | 161-168 | 201-210 | 178-186 | 223-233 |

Prime power is the nominal power an engine is capable of delivering with a variable load for an unlimited number of hours per year. This rating conforms to ISO3046 and SAE J1995.

Standby power is the maximum engine power available at varying load factors for up to 200 hours per year when applied to conform with ISO 8528-1. This rating conforms to ISO 3046 and SAE J1995. Calculated generator set rating range for standby applications is based on minimum engine power (nominal -5 percent) to provide 100 percent meet-or-exceed performance for assembled standby generator sets.

*Electrical power is calculated from the typical generator efficiency and fan power percentages shown. Applications may vary.

Features and benefits

Dynamically Balanced Crankshaft

- Induction-hardened journals for long hours of reliable service
- Robust design to drive machinery from the front of the crankshaft
- Supported by seven main bearings

Forged-steel Connecting Rods

- 45-degree connecting rod/cap-joint design allows the use of large connecting rod bearings for increased durability

Replaceable Wet-type Cylinder Liners

- Provide excellent heat dissipation
- Precision machined for long life
- Rebuild to original specifications

Easy to Apply, Easy to Install

- Front and rear engine mounting pads on the side of the block facilitates installations
- Auxiliary drive rated to 50 hp (37 kW) intermittent for powering ancillary equipment
- Either side service for filters and service points facilitates packaging
- All connection points in common locations make it easy to install or package

Compact Size

- High mount or low mount turbocharger position to meet packaging requirements

World-class performance

- Excellent fuel economy and low oil consumption

Fuel System Controls

- Proven and Reliable Mechanical Governor
- 3-5% Droop Governing
- 12V or 24V Electric Shutoff

Emissions

- This engine is not emission certified