

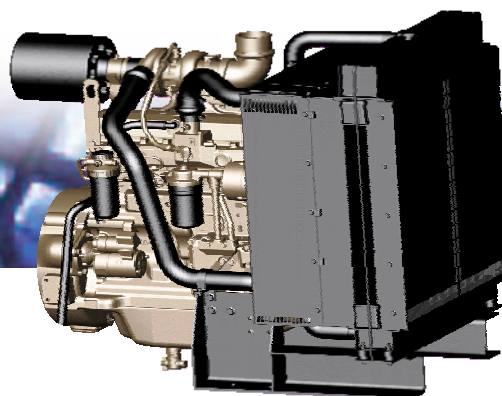
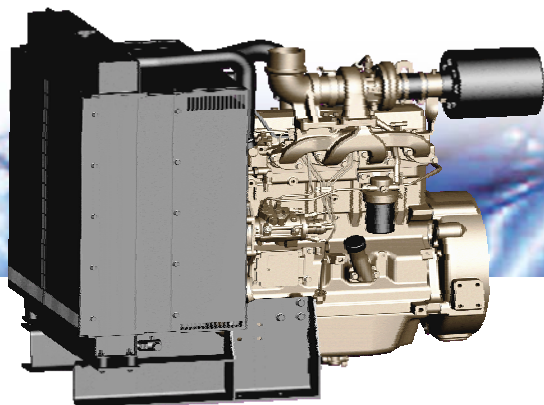


JOHN DEERE

PowerTech™

4045HFU72 Diesel Engine

for Generator Set Applications



General data

Model 4045HFU72
Number of cylinders 4
Displacement – L (cu in) 4.5 (275)
Bore and stroke – mm (in) 106 x 127 (4.19 x 5.00)
Compression ratio 17.0 : 1
Engine type In-line, 4-Cycle

Aspiration.....Turbocharged (Air cooled)
Length – mm (in)1361,73 (53,61)
Width – mm (in)748,7 (29,48)
Height – mm (in) 1137 (44,76)
Weight, dry – kg (lb) 480 (1058)

Corresponding bare engine 4045HF275

Ratings

Prime power at 50 Hz (1500 rpm)	75 kW (101 hp)
Standby power at 50 Hz (1500 rpm)	83 kW (111 hp)

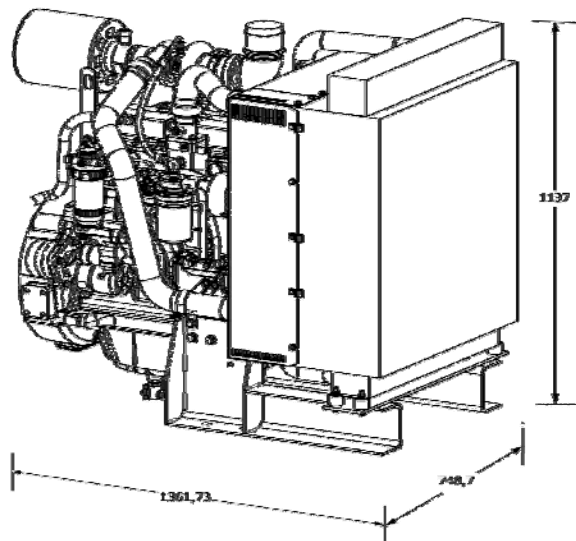
Prime power is the nominal power an engine is capable of delivering with a variable load for an unlimited number of hours per year. This rating conforms to ISO 3046 and SAE J1995.

Standby power is the nominal engine power available at varying load factors for up to 500 hours per year. This rating conforms to ISO 3046 and SAE J1995. The calculated generator set rating range for standby applications is based on minimum engine power (nominal -5%) to provide 100% meet-or-exceed performance for assembled standby generator sets.

Certification

- EU Stage II

Dimensions



Dimensions : mm

Weight : 480 kg

Photographs may show non-standard equipment.

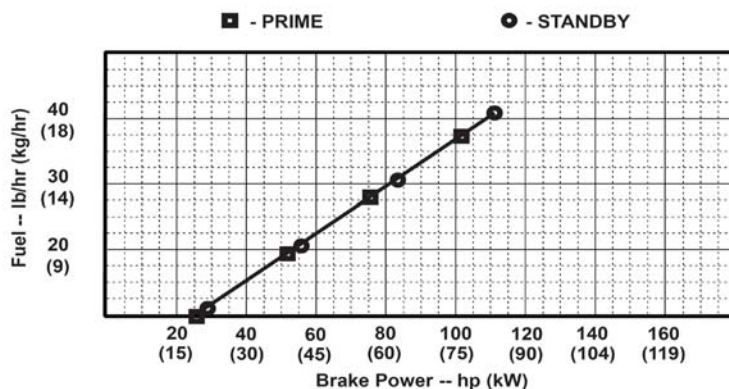
PowerTech™ 4045HFU72 Diesel Engine

for Generator Set Applications

Performance data

Hz (rpm)	Generator efficiency %	Fan power		Power factor	Calculated generator set output			
		kW	hp		Prime		Standby	
					kWe	kVa	kWe	kVa
50 (1500)	88-92	4.8	6	0.8	62-65	77-81	69-72	86-90

Performance curve



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 five 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
- Either side service for filters and service points
- All connection points in common locations make it easy to install or package
- Engine mounted ECU and electronic speed control simplify installation and packaging

Smooth Operation

- Smooth vibration with full length engine balancers

Compact Size

- Short length is ideal for both skid and packaged installations
- High mount or low mount turbocharger position to meet packaging requirements

World-class Performance

- Excellent fuel economy and low oil consumption

Fuel System Controls

- Electronically controlled rotary fuel injection pump with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection
- 3-5% Droop Governing or isochronous
- 12V or 24V Electric Shutoff

Emissions

- EU Stage II



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