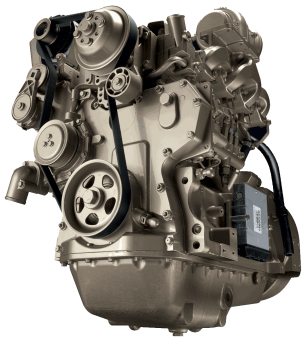
PowerTech ™ 4045TF275 Diesel Engine

Generator Drive Engine Specifications

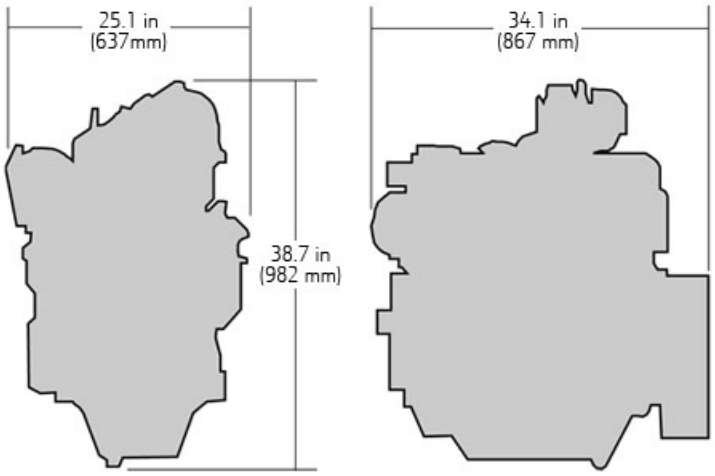


4045TF275 shown

Emissions

CARB
EPA Tier 2

Engine dimensions



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

General data

Model	4045TF275
Number of cylinders	4
Displacement - L (cu in)	4.5 (275)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)
Compression Ratio	17.0:1
Engine Type	In-line, 4-Cycle
Aspiration	Turbocharged

Length - mm (in) to rear of block	867 (34.1)
Width - mm (in)	637 (25.1)
Height-- mm (in)	982 (38.7)
Weight, dry - kg (lb)	451 (994)

Performance data range

Rated speed	Engine power				Generator efficiency	Rated fan power		Power factor	Calculated generator set output			
	Prime		Standby						Prime		Standby	
Hz(rpm)	kW	hp	kW	hp	%	kW	hp		kWe*	kVA	kWe	kVA
60(1800)	76	102	84	113	88-92	4.2	6	0.8	64-66	79-83	70-73	88-92

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.

Photographs may show non-standard equipment.

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

Smooth Operation

- Smooth vibration with full length engine balancers

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

Compact Size

- Short length is ideal for both skid and packaged installations
- High mount or low mount turbocharger position to meet packing 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
- 12V or 24V Electric Shutoff

Emissions

- CARB Certified
- EPA Tier 2 Certified

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