

PowerTech™

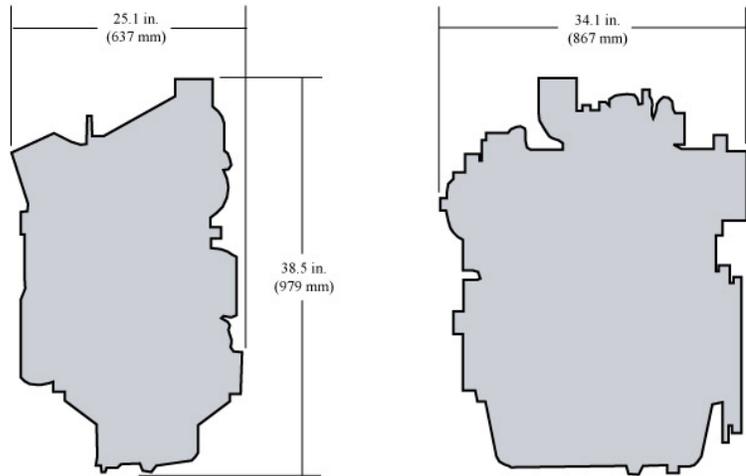
4045TF270 Diesel Engine

Generator Drive Engine Specifications



4045TF270 shown

Engine dimensions



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

Emissions

EU Stage II

General data

Model	4045TF270
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	860 (33.9)
Width - mm (in)	612 (24.1)
Height-- mm (in)	994 (39.1)
Weight, dry - kg (lb)	396 (873)

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)	55	74	61	82	88-92	2.0	3	0.8	47-49	58-61	51-54	64-68

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

- Crankshafts are formed from nodular iron

Forged-Steel Connecting Rods

- Unique 45-degree design permits the use of larger crankshaft connecting-rod bearings for increased durability

Mechanical Rotary Fuel Pump

- The timing and fuel injection pressures are optimized to maximize performance and fuel economy at a given rated speed

Self-adjusting Poly-vee Fan Drive

- Self-adjusting, eight-groove, poly-vee fan drive provides multiple fan drive ratios and fan heights that can be matched to specific application requirements
- Poly-vee design provides more than twice the drive capacity of comparable vee-belts

Replaceable Wet-type Cylinder Liners

- Provides excellent heat dissipation
- Precision machined for long life

Either-Side Service

- Engine installation and maintenance simplified and convenient by providing dipstick and oil filter options on both sides of the engine

500-Hour Oil Change

- Customers save significant costs on oil, filters and labor with a 500-hour oil change interval

Fuel System Controls

- Proven and reliable mechanical governor
- 12V or 24V electric shutoff

Mounting Points

- Standard front and side mounting points provide easy installation and application flexibility

Emissions

- EU Stage II