PowerTech ™ M 4045TF280 Diesel Engine

Generator Drive Engine Specifications





4045TF280 shown

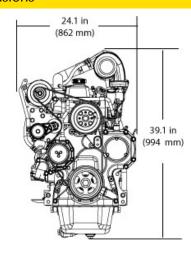
Certifications

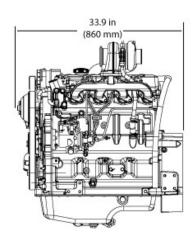
CARB

EPA Tier 3

Aspiration

Dimensions





General data	
Model	4045TF280
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	19.0:1
Engine Type	In-line, 4-Cycle

Turbocharged

0 (33.9)
2 (24.1)
4 (39.1)
6 (873)

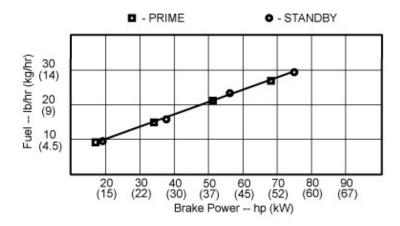
Performance data

Prime power at 60 Hz (1800 rpm) 51 kW (68 hp) Standby power at 60 Hz (1800 rpm) 56 kW (75 hp)

The prime power gen-set engine rating is the nominal power an engine is capable of delivering with a variable load for an unlimited number of hours per year with normal maintenance intervals observed. This rating incorporates a 10% overload capability which is available for up to 2 hours at a time. Operating time between 100% and 110% of the prime power rating is not to exceed 8% of the total engine operating time. This rating conforms to ISO 8528-1 "prime power (PRP)". The permissible average power for the prime or PRP rating is not to exceed 70% of rated prime power when calculated per ISO 8528-1.

The standby gen-set engine rating is the nominal engine power available at varying load factors for up to 200 hours per year with normal maintenance intervals observed. No overload capability is available for this rating. This rating conforms to ISO 8528-1 "Emergency Standby Power (ESP)". The permissible average power for the standby or ESP rating is calculated per ISO 8528-1.

Performance curve



Performance data										
Hz (rpm)	Generator efficiency %	Rated fa	an power		Calculated generator set output					
				Power factor	Prime		Standby			
		kW	hp		kWe	kVA	kWe	kVA		
60 (1800)	88-92	2	3	0.8	43-45	54-56	48-50	60-63		

Features and benefits

2-Valve Cylinder Head

Cross-flow head design provides excellent breathing from a lower-cost 2-valve cylinder head

Mechanical Rotary Fuel Pump

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

Fixed Geometry Turbocharger

Fixed geometry turbochargers are precisely matched to the power level and application

Turbocharged

 In turbocharged engines, the air is pre-compressed. Due to the higher pressure, more air is supplied into the combustion chamber allowing a corresponding increase in fuel injection which results in greater engine output

Compact Size

- Mounting points are the same as Tier 2/Stage II engine models

Engine Performance

- Block loading capability provided with standard electronic governor control

Additional Features

- Self-adjusting poly-vee fan drive
- Forged-steel connecting rods
- Replaceable wet-type cylinder liners
- Either-side service
- Optional final fuel filter with water separator and water-in-fuel sensor
- Optional balancer shafts

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