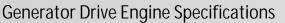
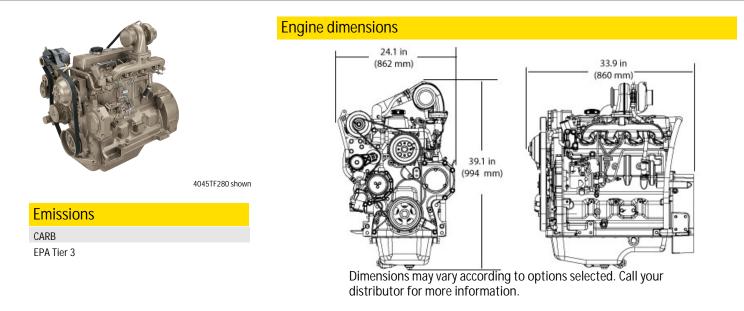
PowerTech [™] M 4045TF280 Diesel Engine







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
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			Calculated generator set output				
	Prime Standby					Power factor	Prime		Standby			
Hz(rpm)	kW	hp	kW	hp	%	kW	hp		kWe*	kVA	kWe	kVA
60(1800)	51-57	68-76	56-63	75-84	88-92	1.9	3	0.8	43-51	54-64	48-56	60-70

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

2-Valve Cylinder Head

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

- Excellent block loading capability

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

John Deere Power Systems 3801 W. Ridgeway Ave. PO Box 5100

Waterloo, IA 50704-5100 Phone: 1-800-533-6446 Fax: 319.292.5075

John Deere Power Systems Usine de Saran La Foulonnerie - B.P. 11.13 45401 Fleury les Aubrais Cedex France Phone: 33.2.38.82.61.19

Fax: 33.2.38.82.60.00

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