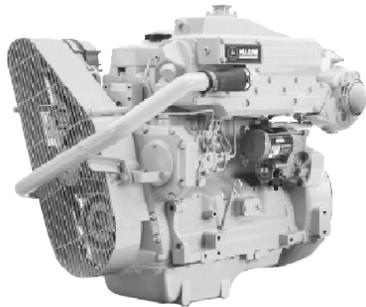


# PowerTech™

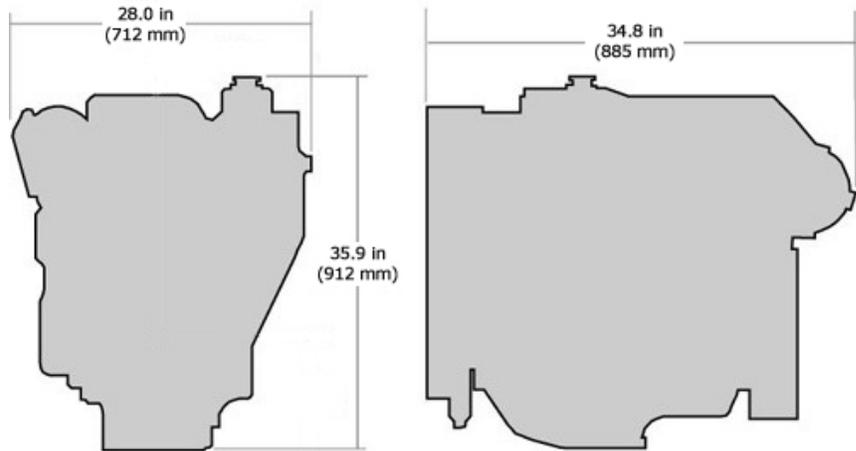
## 4045TFM50 Diesel Engine

Marine Generator Drive Engine Specifications



4045TFM50 shown

### Dimensions



Dimensions shown in mm (in) may vary according to options selected. Contact your distributor for more information.

### Emissions

Non-Emissions Certified  
IMO Exempt

### General Data (Based on Standard Option Configuration)

Model	4045TFM50	Length maximum - mm (in)	885 (35)
Number of cylinders	4	Width - mm (in)	713 (28)
Displacement - L (cu in)	4.5 (276)	Height - mm (in)	911 (36)
Bore and Stroke-- mm (in)	106 x 127 (4.19 x 5.00)	Weight, dry - kg (lb)	462 (1017)
Engine Type	In-line, 4- Cycle		
Aspiration	Turbocharged		

### Classification Societies

ABS, BV, CCS, DNV-GL, LR

\*SOLAS and other accessories available. Contact your distributor for details.

### Features and Benefits

#### Optional Low RPM Operation

- A lower speed option provides the user the ability to start the engine without going to the gen-set rated speed and allows the user to clutch in an accessory that may be driven by the engine.

#### Water-cooled Exhaust Manifold

- Integrated components eliminate external hoses and fittings that can leak or break. Wet exhaust manifold creates a cooler and quieter environment for passengers and crew.

#### Replaceable Cylinder Liners

- Replaceable wet-type cylinder liners are precision-machined and hardened

#### Electronic Engine Control Unit (ECU)

- Advanced fault code diagnostics and customizable engine protections ensure reliability and uptime. Provides highly customizable features and trim to integrate your vessel.

#### Keel-cooled or Heat Exchanger

- Closed cooling system in keel-cooled engine option eliminates the need for a sea strainer, seawater pump, or anodes. Heat exchanger option offers a lighter, more compact, and simpler engine installation.

#### Internal Balancers

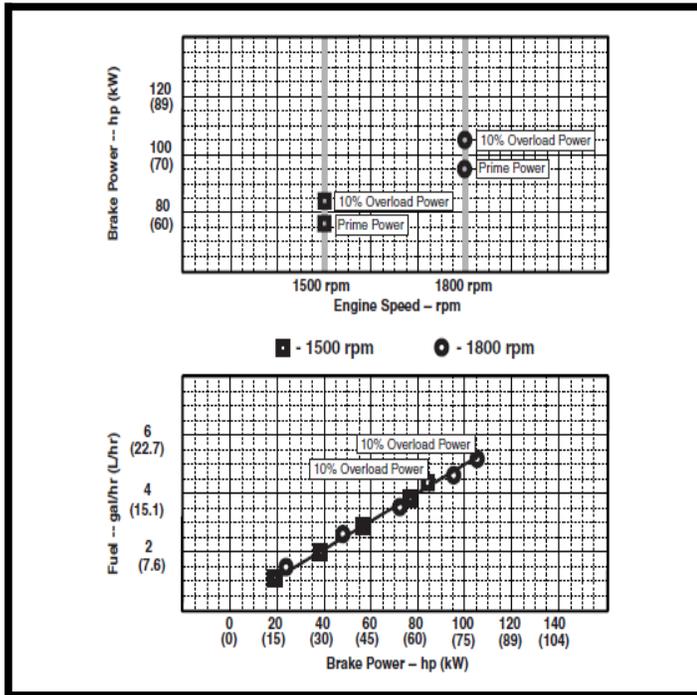
- Internal balancers reduce engine noise and vibration for crew comfort. NOTE: John Deere 4045 engines only.

#### Multiple Service Options

- Either-side oil fill/dipstick combinations and remote oil and fuel filter options are available for easier service access.

## Performance Curves

50 and 60 Hz (1500 and 1800 rpm)



Performance data points shown at 25%, 50%, 75%, 100% (prime), and 110% (overload) power.

## Calculated Generator-Set Rating

Rated speed Hz (rpm)	Generator efficiency %	Engine power		Power factor	Calculated generator set rating	
		Prime*			Prime*	
		kW	hp		kWe	kVA
50 (1500)	88-92	57	76	0.8	50-52	62-65
60 (1800)	88-92	71	95	0.8	62-65	78-81

\*Prime power is the normal 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. This rating incorporates a 10 percent overload capability, and conforms to ISO 8528 prime power.

See your John Deere Power Systems engine distributor or marine dealer for more detailed performance information.