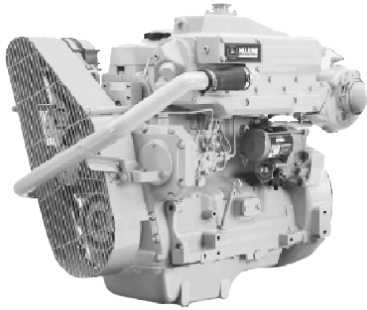


PowerTech™

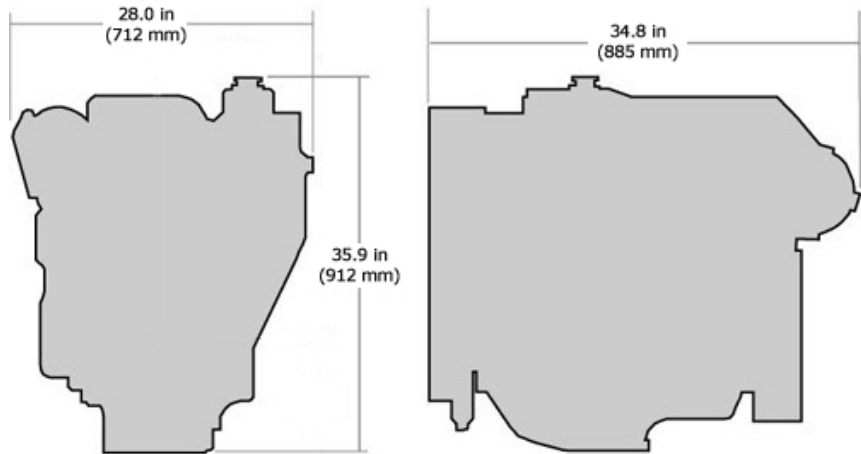
4045TFM50 Diesel Engine

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

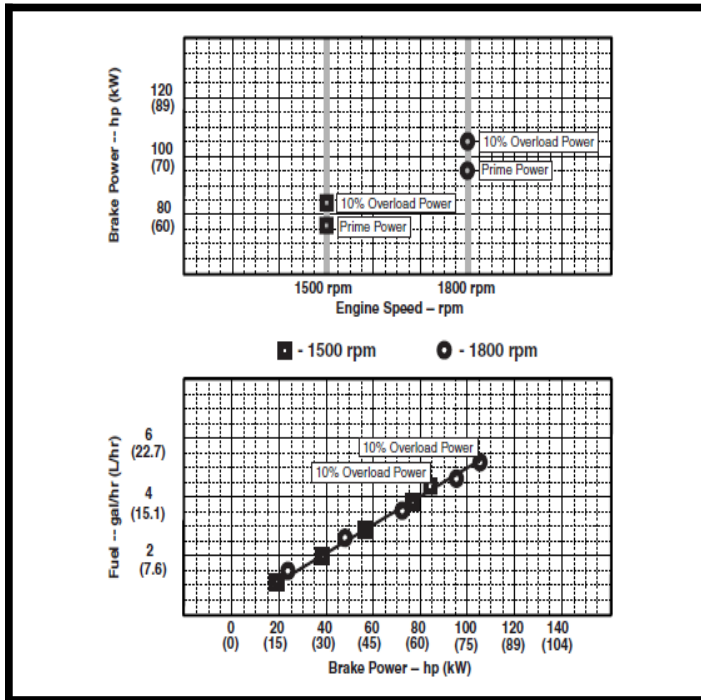
- Internal balancers reduce engine noise and vibration for crew comfort. NOTE: John Deere 4045 engines only.

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.