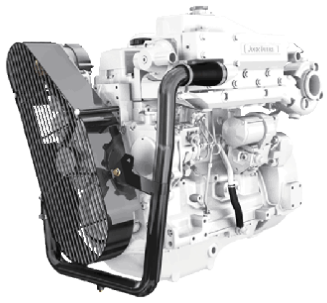
PowerTech ™ 4045TFM75 Diesel Engine

Marine Generator Drive Engine Specifications



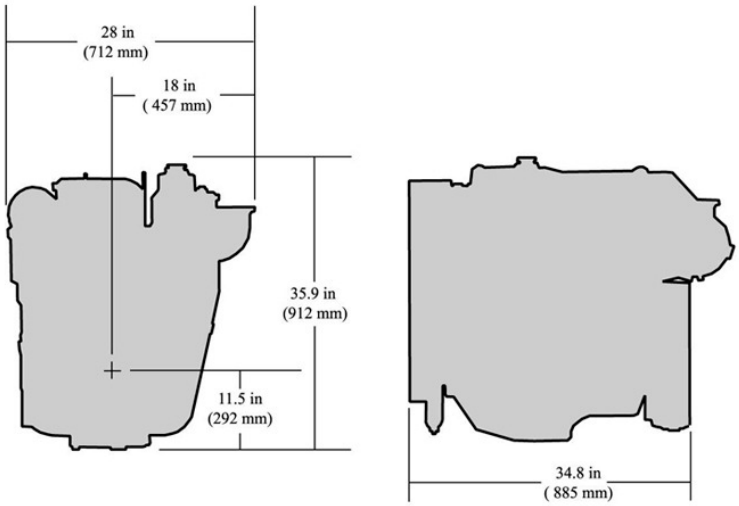
4045TFM75 shown

Emissions

EPA Commercial Marine

IMO Exempt

Dimensions



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

General Data (Based on Standard Option Configuration)

Model	4045TFM75
Number of cylinders	4
Displacement - L (cu in)	4.5 (275)
Bore and Stroke-- mm (in)	106.5 x 127 (4.19 x 5.00)
Engine Type	In-line, 4- Cycle
Aspiration	Turbocharged

Length maximum - mm (in)	885 (34.8)
Height - mm (in)	912 (35.9)
Height, crankshaft centerline to top - mm (in)	620 (24.4)
Height, crankshaft centerline to bottom - mm (in)	292 (11.5)
Weight, dry - kg (lb)	462 (1019)

Classification Societies

CCS,DNV-GL,PRS

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

Features and Benefits

Watercooled Exhaust Manifold

- Cooler and quieter environment for vessel and crew
- Reduced external connections eliminates hoses and fittings that can leak or break

Replaceable wet-type cylinder liners

- Hardened and precision machined for long life
- Rebuild to original specifications

Internal Balancers

- Low noise and vibration for crew comfort

Corrosion Resistant Components

- Provides engine protection from the effects of seawater

Either-side Service

- Oil fill and dipstick combinations
- Remote oil filter for easier service access

Heat Exchanger or Keel Cool ed

- Integrated expansion tank, heat exchanger and exhaust manifold reduce chances of leaks
- Keel cooler options provide application flexibility

High Torque and Low Rated RPM

- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

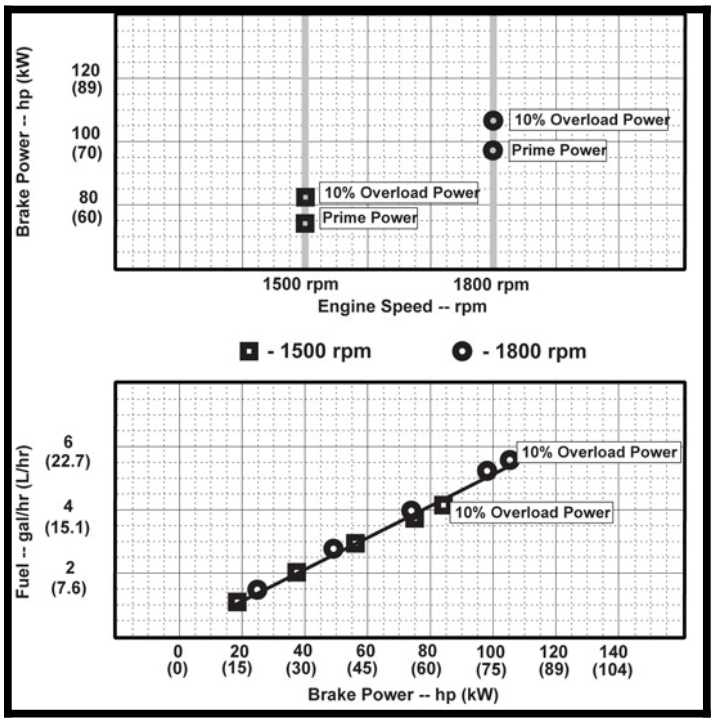
Fuel System

- Electronically controlled rotary fuel injection pump with variable timing resulting in excellent fuel economy and excellent performance
- Self diagnostics and protection

Photographs may show non-standard equipment.

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 rati ng	
		Prime*			Prime*	
		kW	hp		kWe	kVA
50 (1500)	88-92	55	74	0.8	48-51	60-64
60 (1800)	88-92	73	98	0.8	64-67	80-84

*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 De ere Power Systems engine distributor or marine dealer for more detailed performance information.

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.