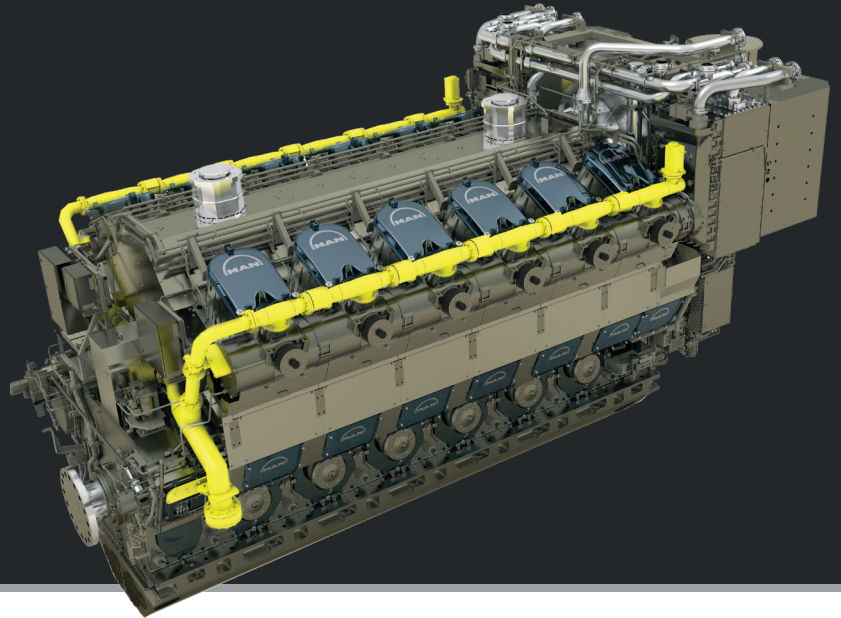


FM | MAN 51/60DF DUAL FUEL

POWER RANGE
9,195 - 18,465 kW_e



Fuel-flexible and lower environmental impact

Equipped with the revolutionary dual-fuel (DF) technology to reduce NOx emissions, FM | MAN 51/60DF engines operate on 99% natural gas with 1% micro diesel pilot (can also operate on 100% diesel for maximum flexibility). Offered in an L & V-type version with up to 18 cylinders, the 51/60DF has a rated output of 1,050 kWm per cylinder for 60 Hz generation to deliver best-in-class power density among DF engines.

APPLICATIONS

- Power Generation

INSTALLATIONS

- Industrial Power Generation
- Municipalities
- Universities
- Schools
- Hospitals
- CHP
- IPP/Utilities
- Distributed Generation

KEY ADVANTAGES

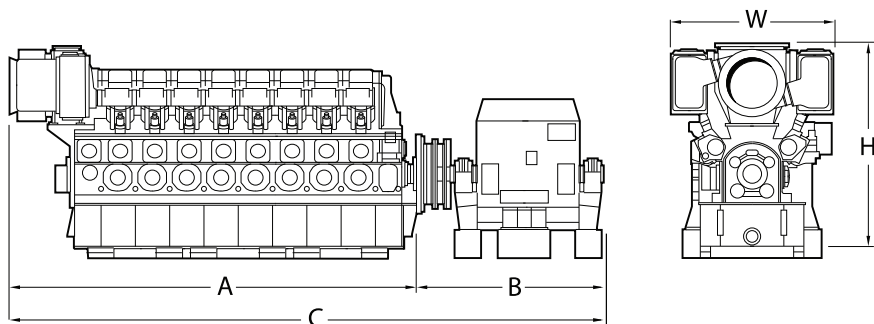
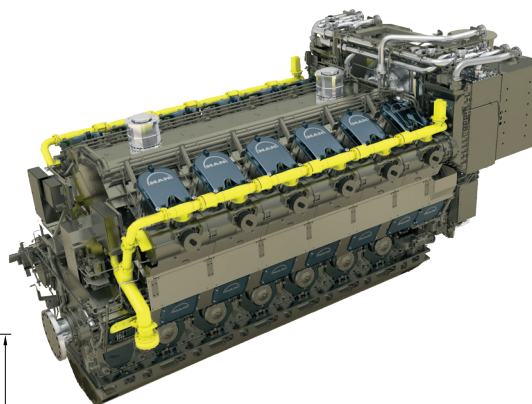
- Clean, lower environmental impact, small carbon footprint
- Fuel flexibility
- Power range up to 18 MW per unit
- Increased redundancy ensures highest possible availability

ENGINE SPECIFICATIONS

Cylinder Configuration	9L,12V, 14V, 18V	Displacement/Cylinder-L (cu in)	122.5 (7,475) - 514 rpm
Cylinder Bore - mm (in)	510 (20.1)	Mean Piston Speed - m/s (ft/min)	10.3 (33.8) - 514 rpm
Piston Stroke - mm (in)	600 (23.6)	BMEP - bar (psi)	20-21.9 (290-318) - 514 rpm
Cycle	4 Stroke		

FM | MAN 51/60DF

POWER RANGE
9,195 - 18,465 kW_e



DIMENSIONS

CYLINDERS	A (mm)	B (mm)	C (mm)	W (mm)	H (mm)	DRY WEIGHT TONS (m) (lbs)
9L	10,545	4,805	15,350	2,970	6,030	225 (450,000)
12V	9,835	4,950	14,785	4,700	6,530	273 (552,000)
14V	10,835	5,150	15,985	4,700	6,530	318 (636,000)
18V	13,148	5,410	18,558	4,700	6,530	381 (762,000)

Drawings are for illustration only. For installation obtain certified prints.

POWER RATINGS

CYLINDERS	ASPIRATION	GENERATOR 514 RPM 60HZ kW _e (HIGH EFFICIENCY)	GENERATOR 514 RPM 60HZ kW _e (HIGH OUTPUT)
9L	Turbocharged	9,195	10,070
12V	Turbocharged	12,310	13,480
14V	Turbocharged	14,360	15,730
18V	Turbocharged	18,465	20,220

NOTES

All ratings subject to factory approved application. Generator efficiency L-engine - 97.3% and V-engine - 97.7%. Power ratings P_{ISO} are as specified in DIN ISO 3046-1. Power rating valid for tropical conditions: Air temp 45°C. Cooling water temp at aircooler 52°C. Ambient pr 1 bar.



FAIRBANKS MORSE
 AN ENPRO INDUSTRIES COMPANY



701 White Avenue
 Beloit, Wisconsin 53511 USA
 1-800-356-6955

FM.Marketing@fairbanksmorse.com

©2018 Fairbanks Morse. All rights reserved. Form 3003.0818

fairbanksmorse.com