

WÄRTSILÄ 31 THE MOST EFFICIENT DIESEL ENGINE GENERATING SET

The Wärtsilä 31 diesel engine generating set is designed to support future fuel conversions to gaseous fuels. It is available in 12V, 16V and 20V cylinder versions, with a power output ranging between 6.2 MW and 11.8 MW.

Wärtsilä helps customers unlock the value of the energy transition by optimising their energy systems and future-proofing their assets. We offer flexible power plants, energy management systems, and storage, as well as engineering, procurement and construction (EPC) deliveries and full lifecycle support that ensure guaranteed performance.

Key features

- The highest available open-cycle efficiency
- Reduced environmental footprint
- Longer component life
- Rigid construction exclusively designed to accommodate a high firing pressure level and two stage turbo charging
- Low overall lifecycle cost
- Modular design supports future fuel conversion for gaseous fuels, for dual-fuel (DF) and spark ignited (SG) versions
- Reliability guaranteed through extensive validation and Wärtsilä's vast manufacturing experience
- Optimised performance and efficiency supported by Wärtsilä Lifecycle solutions



**FOR FLEXIBLE
BASELOAD**



**LOW OVERALL
LIFECYCLE COST**



**GAS CONVERSION
READY**



MAIN TECHNICAL DATA

Engine generating set, 50 & 60 Hz	
Cylinder configurations	12V, 16V & 20V
Cylinder bore	310 mm
Piston stroke	430 mm
Engine speed	750 rpm (50 Hz), 720 rpm (60 Hz)
Mean piston speed	10.8 m/s (50 Hz), 10.3 m/s (60 Hz)

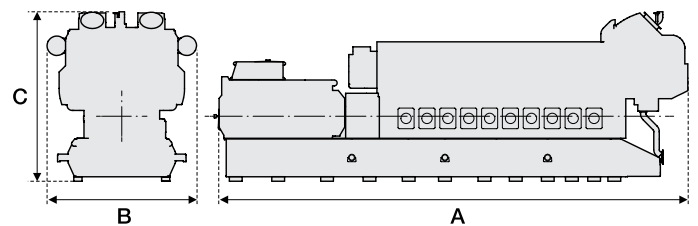
Rated electrical power LFO / HFO (kW)

Genset type	50 Hz	60 Hz
12V31	7 034	6 779
16V31	9 403	9 075
20V31	11 779	11 377

Maximum transportation dimensions (mm) and weights (tonnes)¹

Genset type	Length (A)	Width (B)	Height (C)	Dry weight
12V31	11 126	3 785	4 985	127
16V31	12 706	3 893	5 034	150
20V31	14 412	3 893	5 090	182

¹ There are a number of dismantling options available for transportation of the generator set. These include different options for reduced weight and height. Please contact Wärtsilä for further information.



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