

## WÄRTSILÄ 32TS ENGINE GENERATING SET

The Wärtsilä 32TS is a four-stroke diesel engine generating set. It is a two-stage turbocharged version of the market-leading Wärtsilä 32 series maintaining efficiency and power regardless of challenging ambient conditions, like high altitudes or hot temperatures.

Wärtsilä 32TS brings the power to where it is needed with proven reliability. It provides high efficiency throughout the entire life of the power plant.

We help our customers in decarbonisation by developing market-leading technologies such as flexible power plants that can be delivered as engineering, procurement and construction (EPC). With our full lifecycle support we ensure guaranteed performance of the plant.

### Key benefits

- Designed to operate with outstanding efficiency even in extreme ambient conditions, such as high temperatures and high altitudes
- Low operating cost
- Operates on heavy fuel oil, light fuel oil, crude oil and liquid biofuels
- Compact sizing allows transportation to demanding locations
- Optimised performance and efficiency supported by Wärtsilä Lifecycle solution

2

Minutes to full load

10,2

MW Electric power

47,4

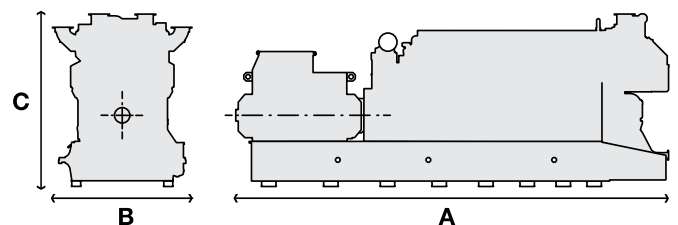
% Electrical efficiency

Wärtsilä 32TS Engine generating set		
Cylinder configurations	20V	
Cylinder bore	320 mm	
Piston stroke	400 mm	
Engine speed	750 rpm (50 Hz) 720 rpm (60 Hz)	
Performance (50Hz/60Hz) <sup>1</sup>		
	20V32TS	
Rated electrical power (kW)	10 189 (50 Hz) 9 781 (60 Hz)	
Electrical efficiency (%)	LFO: 47.4 (50 Hz) 47.7 (60 Hz)	HFO: 47.2 (50 Hz) 47.6 (60 Hz)
Heat rate at generator terminals (kJ/kWh)	7 599 (50 Hz) 7 547 (60 Hz)	7 620 (50 Hz) 7 568 (60 Hz)
Loading and unloading		
	Connected to grid	Full load
Regular start time (min:sec)	00:30	< 5
Fast start time (min:sec)	00:30	< 2
Stop time (min)	1	
Ramp rate (hot, load /min)	> 100%	
Minimum Load		
Unit level	35%	
Plant level	1%	

Maximum transportation dimensions (mm) and weights (tonnes) <sup>2</sup>				
Genset type	Length (A)	Width (B)	Height (C)	Dry weight
20V32TS	12 799	3 740	4 732	151

<sup>1</sup> Rated electrical power and electrical efficiencies are given at generator terminals at 100kPa ambient pressure, 25°C suction air temperature and 30% relative humidity, and without engine driven pumps. Power factor 1.0 (site). Electrical efficiency with 5% tolerance. Site conditions, fuel and applicable emission limits may have an impact on performance figures. Please contact Wärtsilä for project-specific performance data.

<sup>2</sup> 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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