The Wärtsilä 50 is a gas-conversion-ready four-stroke diesel engine generating set that runs on light fuel oil (LFO) or heavy fuel oil (HFO). It features an 18V cylinder configuration.

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
• Fast-starting capability which enables rapid response to fluctuations inherent to renewable generation
• High reliability
• The Wärtsilä 50 is designed to incorporate future fuel conversion possibilities
• Easy and cost-effective installation
• Fuel economy over the entire engine operation range
• Embedded automation system
• Optimised performance and efficiency supported by Wärtsilä Lifecycle solutions
**MAIN TECHNICAL DATA**

### Engine generating set, 50 & 60 Hz

<table>
<thead>
<tr>
<th>Cylinder configurations</th>
<th>18V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cylinder bore</td>
<td>500 mm</td>
</tr>
<tr>
<td>Piston stroke</td>
<td>580 mm</td>
</tr>
<tr>
<td>Engine speed</td>
<td>500 rpm (50 Hz), 514 rpm (60 Hz)</td>
</tr>
<tr>
<td>Mean piston speed</td>
<td>9.7 m/s (50 Hz), 10 m/s (60 Hz)</td>
</tr>
</tbody>
</table>

### Rated electrical power (kW)

<table>
<thead>
<tr>
<th>Genset type</th>
<th>50 Hz</th>
<th>60 Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>18V50</td>
<td>18 434</td>
<td>18 875</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Genset type</th>
<th>Length (A)</th>
<th>Width (B)</th>
<th>Height (C)</th>
<th>Dry weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>18V50</td>
<td>18 747</td>
<td>5 543</td>
<td>6 257</td>
<td>377</td>
</tr>
</tbody>
</table>

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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