MORE ENERGY
LESS COMPLEXITY

DW61 500kW

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salesUK@ewtdirectwind.com
In addition, the turbine has a number of programmable functions, such as a capability to adjust the power factor and a capability to automatically control the voltage in order to comply with stringent grid requirements. This makes our turbine suitable to operate in weak grids and micro grids. The perfect choice for single wind turbine applications, and demanding locations where specific environmental demands must be met.

**Technically suited to integration with other generation**

The flexibility that the direct drive and back-to-back full-power converter technology offers, makes the turbine highly suited for integration with other generation sources such as hybrid wind/diesel power systems.

**Focused on medium and low wind regimes**

Much of the world’s turbine demand is in low-medium wind areas (IEC class II and III). EWT’s turbines are designed to maximize yield from such sites relative to other turbines in our capacity range. This enables wind project owners to achieve high yields and, therefore, more attractive financial returns, even at sites with low wind conditions.

**DW61 - 500kW wind turbine**

The new DIRECTWIND 61–500kW is an optimized pitch controlled variable speed wind turbine that combines continuous market driven innovation with highly advanced and proven direct drive technology. The DW61–500kW turbine boasts a track record of over 600 units based on our technology operating in the field.

**Specifications:**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rotor diameter</td>
<td>61 m</td>
</tr>
<tr>
<td>IEC wind class</td>
<td>IIIA</td>
</tr>
<tr>
<td>Rotor speed variable</td>
<td>12 - 22 rpm</td>
</tr>
<tr>
<td>Nominal power output</td>
<td>500 kW</td>
</tr>
<tr>
<td>Hub heights</td>
<td>46 and 69 m</td>
</tr>
<tr>
<td>Cut-in wind speed</td>
<td>2.5 m/s</td>
</tr>
<tr>
<td>Rated wind speed</td>
<td>10 m/s</td>
</tr>
<tr>
<td>Cut-out wind speed</td>
<td>25 m/s, 10 min. avg.</td>
</tr>
<tr>
<td>Survival wind speed</td>
<td>52.5 m/s</td>
</tr>
<tr>
<td>Power output control</td>
<td>Pitch controlled</td>
</tr>
<tr>
<td>Generator</td>
<td>Synchronous multi-pole</td>
</tr>
<tr>
<td>Power converter</td>
<td>IGBT-controlled</td>
</tr>
</tbody>
</table>

**Power Curve:**

![Image of Power Curve](image-url)
Direct drive:
Fewer rotating parts reduce mechanical stress, leading to a lower maintenance need and therefore superior availability levels.

New rotor blades:
Latest aero dynamical design, resulting in high efficiency and low noise levels.

Redesign nacelle:
Improved spacious nacelle design for easier servicing at maximum health and safety standards.

Individual pitch control:
Reducing the loads on the main turbine components.

New tower design:
In accordance with the latest IEC standards.

Advantages of EWT’s NEW DW61 - 500kW:
- High energy yield
- High return on investment
- High availability
- Low costs of ownership
- Low noise emissions
- Friendly to weak grids
DSP - DIRECTWIND Service Program

EWT stands for high-quality direct drive turbines characterised by reliability and cost efficiency. To ensure optimal performance and trouble-free operation of our DIRECTWIND turbines, we have an extensive service and maintenance program in place.

The DIRECTWIND Service Program offers:

- Preventive maintenance
- Power curve guarantee
- Corrective maintenance
- Extended product warranty
- Availability guarantee
- Business Interruption compensation

EWT’s remote monitoring strength

All DIRECTWIND turbines that have been installed worldwide are monitored 24/7 from EWT’s headquarters in Amersfoort, The Netherlands. Our highly experienced, professional staff, together with a modern and efficient control room and innovative turbine analysis software, contribute towards the high availability of our turbines.

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