


<p><b>M.O.E. - Moeller Operating Engineering GmbH – certification body</b></p> <p>Accredited according  <b>DIN EN ISO/ IEC 17065: 2018</b>          DAkks registration number: DE-ZE-12005-01-00</p>		
<p><b>Unit certificate</b></p>	<p>No.: MOE 22-EZE-0028-EZE-EZ1-ZE1-V1.0          Version: 1.0</p>	
<p><b>Manufacturer</b></p>	<p>Vestas Wind Systems A/S</p>	
<p>Type of Power Generating Unit (PGU)</p>	<p>Wind Turbine, Type 2          V150 5.6 MW, V162 5.6 MW, V150 6.0 MW, V162 6.0 MW, V162 6.2 MW</p>	
<p>Nominal Data</p>	<p>Rated active power</p>	<p>5.6 – 6.2 MW</p>
	<p>Rated voltage</p>	<p>720 V</p>
	<p>Nominal frequency</p>	<p>50 Hz</p>
	<p>Minimum required short circuit power (only PGU type 1)</p>	<p>-</p>
<p>Application guidelines</p>	<p>VDE-AR-N 4110:2018, VDE-AR-N 4120:2018, VDE-AR-N 4130:2018 in conjunction with FGW TG8 Rev.9</p>	
<p>Certification system</p>	<p>FGW TG 8 Rev. 9 and          M.O.E. ZE_EZE_01_C-Pro</p>	
<p>Applicable Standards/          Guidelines</p>	<p>FGW TG 3 Rev. 25          FGW TG 4 Rev. 9</p>	
<p>The above-mentioned generation units meet the requirements of the VDE-AR-N 4110:2018, VDE-AR-N 4120:2018, VDE-AR-N 4130:2018.</p> <p>The following restrictions and deviations apply:</p> <p><input type="checkbox"/> none</p> <p><input checked="" type="checkbox"/> See Table 3-2 for restrictions and Table 3-3 for notes.</p> <p>The manufacturer has demonstrated the certification of the quality management system of his manufacturing plant according to ISO 9001 and declares to maintain this certification until the validity of the unit certificate expires</p>		

Unit certificate MOE 22-EZE-0028-EZE-EZ1-ZE1 Ver. 1.0  
 Acc. VDE-AR-N 4110:2018,  
 VDE-AR-N 4120:2018, VDE-AR-N 4130:2018  
 Vestas Wind Systems A/S  
 V150 / V162 5.6 MW, V150 / V162 6.0 MW, V162 6.2 MW



The certificate contains the following information:

- Technical data of the generating units and the software version used;
- A generic description of the generating unit;
- Summarised information on the characteristics of the generating unit;

The certificate consists of 120 pages and is based on the following reports:

1. Evaluation report MOE 22-EZE-0028-EZE-EZ1 -EB1
2. Model validation report MOE 22-EZE-0028-EZE-EZ1 -MVB1

*All Information relevant for project certification is listed in this unit certificate. Therefore, these reports are informative and should be considered in case of doubt only*

This certificate is valid until 16.02.2028

*The component certificate is valid for 5 years after initial issue.*

*The validity can be extended upon application of the certificate holder to the certification body after positive examination of the facts.*

*The certificate holder is obliged to promptly notify the certification body in writing of all changes to the component itself and to the software used as well as modifications that affect the certified properties within the surveillance phase. The scope and effects of the changes or modifications shall be documented and presented in a comprehensible manner. The further procedure shall be agreed upon. A statement on the status of the certified product must be submitted to the certifier at intervals of 18 months (FGW TG8 Rev.9, chapter 2.10). The certificate is only valid for the guidelines that are valid at the time the certificate is issued and are shown on the certificate. If the requirements have changed in the period between issuance of the certificate and the time of certificate application, their fulfilment must be additionally checked. The certification body shall decide on the maintenance of the certificate and possible supplements.*

Itzehoe, 17.02.2023

**Certification decision**

**prepared**

 17.02.2023 <b>Nadine Welzel, M.Eng</b> Deputy Head of the certification body		 17.02.2023 <b>Dipl.- Ing. (FH) Daniel Lucht</b> Senior Expert of the certification body
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