

**ENO**  **114**

4.8 MW

novation for efficiency



**ENO ENERGY**

Success with wind.



# Optimised efficiency for wind farms

## Technical specifications eno 114 4.8 MW

### General

Type	eno 114
Rated power	4,800 kW
Cut-in wind speed	3 m/s
Rated wind speed	15 m/s
Cut-out wind speed	25 m/s
Tilt angle	5°

### Rotor

Diameter	114.9 m
Nominal speed range	4.0 - 11.8 rpm
Swept area	10,369 m <sup>2</sup>

### Rotor blade

Manufacturer	eno energy systems GmbH
Material	GRP
Length	56.0 m

### Gears

Model	Planetary-/spur gearing
Gear ratio	approx. 1:126

### Generator

Type	Synchronous generator
Design	slip ringless / brushless excitation

### Tower (hub height)

92 m; 127.5 m; 142 m

### Converter

Type	Full power converter
Model	Modular IGBT inverter topology

### Sound power level<sup>1</sup>

with serrations	103.0 dB(A)
without serrations	105.0 dB(A)

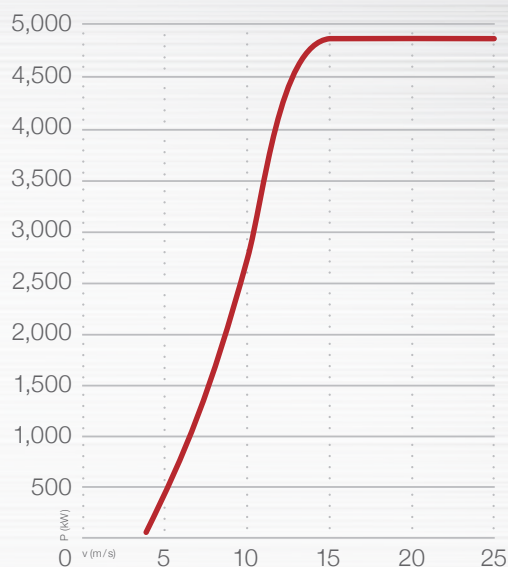
### Wind class

Hub height	92 m	127.5 m	142 m
Wind class according to IEC ed.3	II A	II A	II A
Wind zone according to DIBt 2012	WZ4, GK II	WZ4, GK II	WZ3, GK II

<sup>1</sup> noise-reduced operation modes available on request

<sup>2</sup> annual energy yields valid for k = 2.0 (Weibull distribution)

### Power curve eno 114



### Annual energy yield<sup>2</sup>

Vw, hub height	eno 114
6.0 m/s	8,753 MWh/a
6.5 m/s	10,492 MWh/a
7.0 m/s	12,240 MWh/a
7.5 m/s	13,959 MWh/a
8.0 m/s	15,619 MWh/a
8.5 m/s	17,195 MWh/a

### Reference yield according to FGWTR 5 (EEG 2017)

Hub height	Reference yield in kWh
92 m	49,383,268
127.5 m	58,640,972
142 m	61,944,912



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