

ENO  **114**

3.5 MW

novation for efficiency



ENO ENERGY

Success with wind.



Optimised efficiency for wind farms

Technical specifications eno 114 3.5 MW

General

Type	eno 114
Rated Power	3,500 kW
Cut-in wind speed	3 m/s
Rated wind speed	13 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 ²

Rotor blade

Manufacturer	eno energy systems GmbH
Material	GRP
Length	56.0 m

Gears

Model	Planetary-/spur gearing
Gear ratio	approx. 1:119

Generator

Type	Synchronous generator
Design	slip ringless / brushless excitation

Tower (hub height)

92 m; 127.5 m; 142 m

Converter

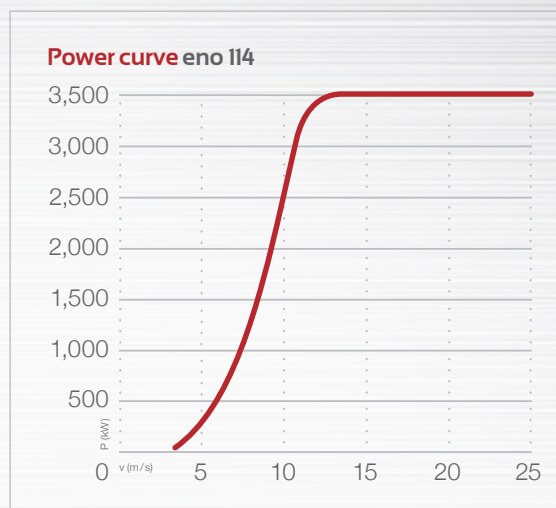
Type	Full power converter
Model	Modular IGBT inverter topology

Sound power level¹

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 S ²	II S ²	II S ²
Wind zone according to DIBt 2012	WZ 4, GK II	WZ 4, GK II	WZ 4, GK II



Annual energy yield³

V _w , hub height	eno 114
6.0 m/s	8,291 MWh/a
6.5 m/s	9,768 MWh/a
7.0 m/s	11,202 MWh/a
7.5 m/s	12,568 MWh/a
8.0 m/s	13,847 MWh/a
8.5 m/s	15,031 MWh/a

Reference yield according to FGW TR 5 (EEG 2017)

Hub height	Reference yield in kWh
92 m	46,243,524
127.5 m	53,919,223
142 m	55,433,066



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¹ noise-reduced operation modes available on request

² advanced turbulence classification for more compact wind farm layout

³ annual energy yields valid for k=2.0 (Weibull distribution)