

ENO 114

4.0 MW

novation for efficiency



ENO ENERGY

Success with wind.



Optimised efficiency for wind farms

Technical specifications eno 114 4.0 MW

General

Type	eno 114
Rated Power	4,000 kW
Cut-in wind speed	3 m/s
Rated wind speed	13.5 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

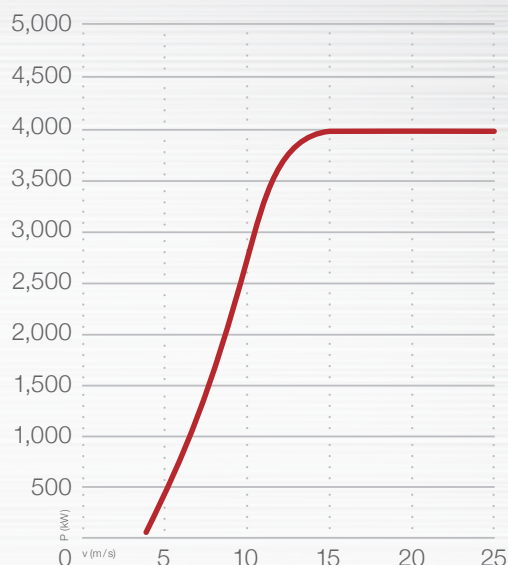
Sound power level¹

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 A	S ²	S ²
Wind zone according to DIBt 2012	WZ 4, GK II	WZ 4, GK II	WZ 3, GK II

Power curve eno 114



Annual energy yield³

V _w , hub height	eno 114
6.0 m/s	8,661 MWh/a
6.5 m/s	10,280 MWh/a
7.0 m/s	11,871 MWh/a
7.5 m/s	13,403 MWh/a
8.0 m/s	14,854 MWh/a
8.5 m/s	16,206 MWh/a

Reference yield according to FGW TR 5 (EEG 2017)

Hub height	Reference yield in kWh
92 m	48,381,223
127.5 m	56,851,130
142 m	59,828,568



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¹ noise-reduced operation modes available on request

² increased average wind speed of 9 m/s (incl. IEC IIA)

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