

## TECHNICAL DATA

### PRODUCT BENEFITS

- ▼ Lower repair and maintenance costs through high-quality and durable components.
- ▼ Fully encapsulated generator cooling system with air-to-air heat exchangers.
- ▼ High-quality permanent magnets for a higher energy yield.
- ▼ Low-wear and low-maintenance blade pitch system with toothed belt drive.

A detailed 3D rendering of a wind turbine nacelle and its three blades. The nacelle is white with a blue diamond logo on the side. The blades are white with a blue diamond logo on the leading edge. The nacelle is mounted on a central hub. The background is a light blue gradient with a subtle grid pattern.

# VENSYS 115

4.1 MW

# VENSYS 115

4.1 MW



## Operating data

Rated power	4.1 MW
Cut-in wind speed	3 m/s
Cut-out wind speed	25 m/s
Operating temperature	-20 °C to +40 °C

## Sound power

Optimized for maximum performance	104.7 dB(A)
-----------------------------------	-------------

(Sound-reduced operating modes available)

## Rotor

Diameter	115 m
Swept area	10,378 m <sup>2</sup>
Rotational direction	Clockwise
Rated speed	12.3 rpm
Blade type	EBT 56
Power control	Pitch
Primary braking system	Single-blade adjustment, triple redundant

## Generator

Type	Synchronous generator with permanent magnet excitation
Construction type	Direct drive

## Yaw system

Construction principle	Geared electric motors
Braking system	Hydraulic brake calipers

## Converter

Type	IGBT full power converter
Frequency	50 Hz / 60 Hz

## Tower

Hub heights	67.5 m   72.5 m   92.5 m	Steel tube tower
119 m		Segmented steel tower

## Wind class

Hub heights 67.5 m   72.5 m   92.5 m	IEC IIA
Hub height 119 m	IEC IIIA

## POWER CURVE VENSYS 115

Wind speed [m/s]	AEP [MWh]
5.0	5,599.1
5.5	7,115.9
6.0	8,699.4
6.5	10,300.8
7.0	11,880.0
7.5	13,406.2
8.0	14,856.1
8.5	16,212.2

