

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 a complex, cylindrical structure with various components visible, including a large central shaft and two red cylindrical components. The blades are long, tapered, and have a textured surface. The background is a light blue and white gradient.

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	104.9 dB(A)
(Sound-reduced operating modes available)	

Rotor

Diameter	115.0 m
Swept area	10,378 m ²
Rotational direction	Clockwise
Rated speed	12.3 rpm
Blade type	EBT 56.0
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	72.5 m 92.5 m
Material	Steel tube

Design

All hub heights	IEC IIA
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POWER CURVE VENSYS 115

Wind speed m/s	AEP [MWh] VENSYS 115 - EBT 56.0
5.0	5,400.3
5.5	6,909.4
6.0	8,496.1
6.5	10,108.8
7.0	11,704.4
7.5	13,249.5
8.0	14,719.0
8.5	16,094.3

Power (kW)

