

TECHNICAL DATA

PRODUCT BENEFITS

- ▼ We dispense with a gearbox, which does not only reduce repair and maintenance costs. Even more important is a distinctly higher yield, especially in the partial-load range.
- ▼ The generator cooling system with air-to-air heat exchangers is fully encapsulated, protecting it from salty air, humidity, dust and dirt.
- ▼ High-quality permanent magnets prevent electrical excitation losses, additionally increasing the energy yield.
- ▼ The blade pitch system with a toothed belt drive is lubrication-free, resistant to wear and requires little maintenance.

VENSYS 126

3.8 MW

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Operating data

Rated power	3.8 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	104.8 dB(A)
(Sound-reduced operating modes available)	

Rotor

Diameter	126.2 m
Swept area	12,509 m ²
Rotational direction	Clockwise
Rated speed	11.5 rpm
Blade type	EBT 61.6
Power control	Pitch
Primary braking system	Single-blade adjustment, triple redundant
Holding brake	Hydraulic with locking bolt

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	Steel tube tower
86.9 m	
136.9 m	Hybrid tower (concrete/steel)

Design

All hub heights	IEC IIA
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POWER CURVE VENSYS 126

Ø Windgeschwindigkeit m/s	AEP [MWh] VENSYS 126 - EBT 61.6
5.0	6,227.1
5.5	7,834.3
6.0	9,470.5
6.5	11,085.1
7.0	12,640.9
7.5	14,112.9
8.0	15,484.6
8.5	16,745.3

