

## 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 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 <sup>2</sup>
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	
86.9 m   96.9 m	Steel tube tower
136.9 m	Hybrid tower (concrete/steel)
136.9 m	Hybrid tower (wood/steel)

## Design

Hub heights 86.9 m   96.9 m	DIBt WZ 3; IEC IIA
Hub height 136.9 m	DIBt WZ 2; IEC IIIA

## POWER CURVE VENSYS 126

Ø Wind speed m/s	AEP [MWh] VENSYS 126 - EBT 61.6
5.0	6,508.7
5.5	8,120.8
6.0	9,750.4
6.5	11,350.5
7.0	12,887.6
7.5	14,339.0
8.0	15,689.9
8.5	16,930.6

