VENSYS

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 136

3.5 MW

VENSYS 136

3.5 MW

Operating data

Rated power	3.5 MW
Cut-in wind speed	3 m/s
Cut-out wind speed	22 m/s
Operating temperature	–20 °C to +40 °C

Sound power

Optimized for maximum performance	105.8 dB(A)

(Sound-reduced operating modes available)

Rotor

Diameter	136.6 m
Swept area	14,655 m²
Rotational direction	Clockwise
Rated speed	10.7 rpm
Blade type	LM 66.9
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

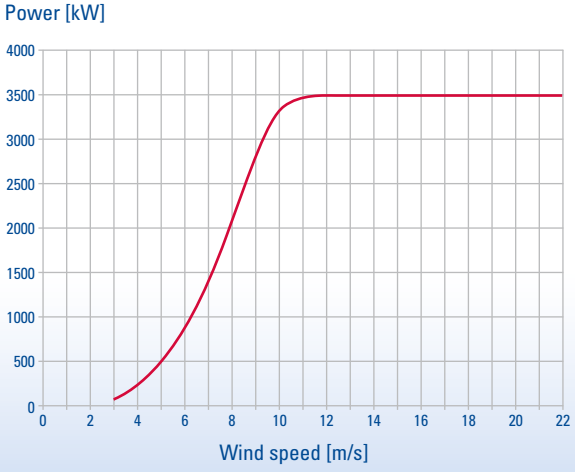
Hub heights	
81.7 m | 97.2 m	Steel tube tower
110 m	Segmented steel tower
131.7 m | 161.2 m	Hybrid tower (concrete / steel)

Wind class

81.7 m | 97.2 m | 131.7 m | 161.2 m	IEC IIIA
110 m	IEC S

POWER CURVE VENSYS 136

ø Wind speed [m/s]	AEP [MWh]
5.0	7,117.7
5.5	8,781.4
6.0	10,418.5
6.5	11,983.8
7.0	13,447.0
7.5	14,788.4



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