VENSYS

TECHNICAL DATA

PRODUCT BENEFITS

- Dispensing with a gearbox means lower repair and maintenance costs and a higher yield.
- High-quality permanent magnets prevent electrical excitation losses, which additionally increases the energy yield.
- The air-cooling system used for the generator and the VENSYS frequency converter saves on additional components, cooling agents and maintenance work.
- The blade pitch system with a toothed belt drive is lubrication-free, resistant to wear and requires little maintenance.

VENSYS 70

1.5 MW

VENSYS 70

1.5 MW

Operating data

Rated power	1.5 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	103.5 dB(A)

(Sound-reduced operating modes available)

Rotor

Diameter	70.3 m
Swept area	3,882 m²
Rotational direction	Clockwise
Rated speed	19.0 rpm
Blade type	EBT 34
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

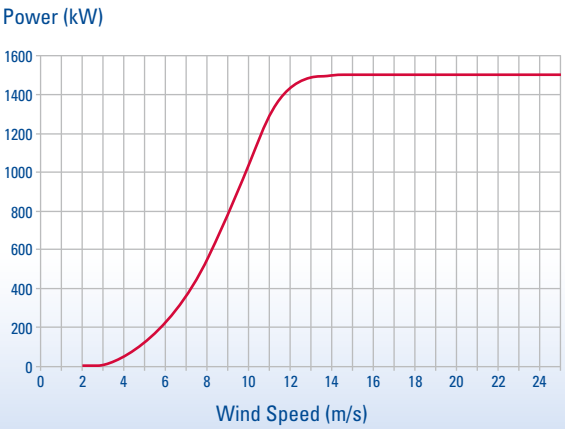
Hub heights	65 m | 85 m
Material	Steel tube

Design

Hub heights 65 m | 85 m	IEC IIA
Hub heights 65 m	IEC IA

POWER CURVE VENSYS 70

ø Wind speed m/s	AEP [MWh] VENSYS 70 - EBT 34
5.0	1,980.2
5.5	2,548.2
6.0	3,142.8
6.5	3,744.5
7.0	4,337.4
7.5	4,909.4
8.0	5,451.7
8.5	5,957.6
9.0	6,422.5
9.5	6,842.9
10.0	7,216.3



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