

## 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 resistant to wear and requires little maintenance.

A detailed 3D rendering of a wind turbine nacelle, showing the internal components like the generator and frequency converter, and the external structure including the tower and blades. The nacelle is white with a blue triangle logo on the side.

*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 bis +40°C

## Sound power

Optimized for maximum performance	102.0 dB(A)
(Sound-reduced operating modes available)	

## Rotor

Diameter	70.3 m
Swept area	3,882 m <sup>2</sup>
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 height	65 m
Material	Steel tube

## Design

Hub height	65 m	IEC IA
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## POWER CURVE VENSYS 70

Wind speed m/s	AEP [MWh] VENSYS 70 - EBT 34
5.0	2,000.7
5.5	2,571.9
6.0	3,169.2
6.5	3,772.8
7.0	4,366.9
7.5	4,939.6
8.0	5,482.0
8.5	5,987.8
9.0	6,452.2
9.5	6,871.8
10.0	7,844.4

Power (kW)

