

TECHNICAL DATA



VENSYS82

1.85 MW

Operating data

Rated power 1.85 MW Cut-in wind speed 3 m/s Cut-out wind speed 25 m/s Operating temperature $-20 \, ^{\circ}\text{C}$ to $+40 \, ^{\circ}\text{C}$

(De-rating possible from 30 °C)

Sound power

Optimized for maximum performance 105.8 dB(A) (Sound-reduced operating modes available)

Rotor

Diameter 82 m
Swept area 5,281 m²
Rotational direction Clockwise
Rated speed 18.25 rpm
Blade type EBT 40
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

 $\begin{array}{ll} \text{Hub heights} & \quad 58.7\,\,\text{m} \mid 83.7\,\,\text{m} \mid 100\,\,\text{m} \\ \text{Material} & \quad \text{Steel tube tower} \end{array}$

Design

Hub heights 58.7 m | 83.7 m IEC IIA Hub height 100 m IEC IIA

POWER CURVE VENSYS 82

ø Wind speed [m/s]	AEP [MWh]
5.0	2,904.3
5.5	3,666.0
6.0	4,446.8
6.5	5,221.8
7.0	5,972.6
7.5	6,686.3
8.0	7,354.0
8.5	7,969.9

Power (kW)

