

V20/100 (Vestas)

Main data

Rated power: 100 kW

Rotor diameter: 20 m

Old model

Offshore model: no

Commissioning: 1987

Rotor

Number of blades: 3

Type: Stall

Swept area: 314.2 m²

Power density: 3.14 m²/kW

Maximum speed: 46 rd/min

Tower

Minimum hub height: 24 m

Maximum hub height: 24 m

Weights

Nacelle: 4,6 t

Rotor + hub: 1,7 t

Tower: 5,6 t

Total: 11,9 t

Gearbox

Gearbox: yes

Stages: 1

Gear ratio: 22

Manufacturer: Hansen

Wind speeds

Cut-in wind speed: 5 m/s

Rated wind speed: 17,5 m/s

Cut-off wind speed: 25 m/s

Generator

Type: ASYNC

Number: 1

Maximum speed: 1012 rd/min

Voltage: 400 V