

FL 1000/54 (Fuhrländer)

Main data

Rated power: 1000 kW

Rotor diameter: 54 m

Old model

Offshore model: no

Commissioning: 1998

Rotor

Number of blades: 3

Type: Stall

Swept area: 2290.2 m²

Power density: 2.29 m²/kW

Maximum speed: 22 rd/min

Manufacturer: LM Glasfiber

Tower

Minimum hub height: 70 m

Maximum hub height: 82 m

Manufacturer: ESTA, Ambau, Wolf

Weights

Nacelle: 40,5 t

Rotor + hub: 18,5 t

Tower: 95 - 120 t

Total: 154 - 179 t

Gearbox

Gearbox: yes

Stages: 3

Gear ratio: 69,155

Manufacturer: Zoller-Dorstener

Wind speeds

Cut-in wind speed: 3,5 m/s

Rated wind speed: 16 m/s

Cut-off wind speed: 25 m/s

Generator

Type: DFIG

Number: 1

Maximum speed: 1500 rd/min

Voltage: 690 V

Manufacturer: ELIN