47-500 (Aeronautica Windpower)

Main data

Rated power: 500 kW
Rotor diameter: 47 m
Available
Class: IEC Ib-IEC IIa
Offshore model: no

Rotor

Number of blades: 3
Type: Stall
Swept area: 1734.9 m2
Power density: 3.47 m2/kW
Maximum speed: 25,3 rd/min

Tower

Minimum hub height: 50 m
Maximum hub height: 65 m

Weights

Nacelle: 22 t
Rotor + hub: 15,2 t

Gearbox

Gearbox: yes

Wind speeds

Cut-in wind speed: 3,5 m/s
Rated wind speed: 13,5 m/s
Cut-off wind speed: 20 m/s

Generator

Type: ASYNC
Number: 1
Maximum speed: 1500 rd/min
Voltage: 690 V