

# 47-ASR-500 kW (Norwin)

## Main data

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

## Rotor

Number of blades: 3  
Type: Stall  
Swept area: 1734.9 m<sup>2</sup>  
Power density: 3.47 m<sup>2</sup>/kW  
Maximum speed: 25,2 rd/min

## Tower

Minimum hub height: 40 m  
Maximum hub height: 65 m

## Weights

Nacelle: 24 t  
Rotor + hub: 14,6 t

## Gearbox

Gearbox: yes  
Stages: 3  
Manufacturer: Winergy

## Wind speeds

Cut-in wind speed: 3 m/s  
Rated wind speed: 13 m/s  
Cut-off wind speed: 25 m/s

## Generator

Type: ASYNC  
Maximum speed: 1600 - 1920 rd/min  
Voltage: 690 V