

USW56 (Kenetech)

Main data

Rated power: 100 kW

Rotor diameter: 18 m

Old model

Offshore model: no

Commissioning: 1983

Rotor

Number of blades: 3

Type: Stall

Swept area: 254.5 m²

Power density: 2.54 m²/kW

Maximum speed: 72 rd/min

Manufacturer: Kenetech

Tower

Minimum hub height: 18 m

Maximum hub height: 18 m

Weights

Nacelle: 3,7 t

Rotor + hub: 3 t

Tower: 4,7 t

Total: 11,4 t

Gearbox

Gearbox: yes

Stages: 2

Gear ratio: 25

Wind speeds

Cut-in wind speed: 5 m/s

Rated wind speed: 13,5 m/s

Cut-off wind speed: 20 m/s

Generator

Type: IND

Number: 1

Maximum speed: 1800 rd/min

Voltage: 480 V