

WM 25 kW

WM 25 kW is a lift-based vertical axis wind turbine with little noise and low impact on the local biodiversity. It is suited for ongrid installations on farmland and coastal areas.

Specification

Designed to standard	IEC 61400-2 class IV
Rated power @ 11,8 m/s	25 kW
Wind speed operation range	3,5 - 22 m/s
Max survival wind speed	42 m/s
Wing sweep area	85 m ²
Wings	3 vertical wings
Rotation	30 - 70 rpm
Wing material	Extruded aluminium
Tower material	Pressure-treated glulam wood
Brakes	Generator, rotor and park-brake
Generator	Direct-drive permanent magnet
Regulation	Stall controlled
Grid connection	CE approved grid-tied inverter
Inverter output	Three-phase 400V

Components

H-type 25 kW vertical axis wind turbine
Control system designed and produced by Emerson
Power converters supplied by ABB
Steel foundation on soil screws

Environmental impact

Wings extruded in recyclable aluminium
Tower manufactured in glulam wood and steel
Foundation made of galvanized steel connected to soil screws
Wings and winglets optimized for low noise

Production estimates

Average Wind @ 50 m	Production 1 year	Production 20 years	CO ₂ offset 20 years (EU)
[m/s]	[MWh]	[MWh]	ton CO ₂
8,0	54,6	1.092	292
7,5	47,6	952	250
7,0	40,6	812	231
6,5	33,6	672	177



Dimensions

