

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 on-grid 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
Wings	3 vertical wings
Rotation	30 - 70 rpm
Wing material	Extruded aluminum
Tower material	Pressure-treated glulam
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

Dimensions

Wing rotor diameter	10,0 m
Wing height	8,5 m
Wing sweep area	85 m ²
Tower height	17,5 m
Wing top height	21,5 m
Tower base diameter	Ø3,3 m
Foundation diameter	Ø6,0 m



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
 Optional 25 kWh battery storage for stabilizing grid connection

Environmental impact

Wings extruded in recyclable aluminum
 Tower manufactured in glulam wood and steel
 Foundation made of galvanized steel connected to ground screws

Production estimates

AVERAGE WIND @ 50 M [m/s]	PRODUCTION 1 YEAR [MWh]	PRODUCTION 20 YEARS [MWh]	CO ₂ OFFSET 20 YEARS EU 2016 [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