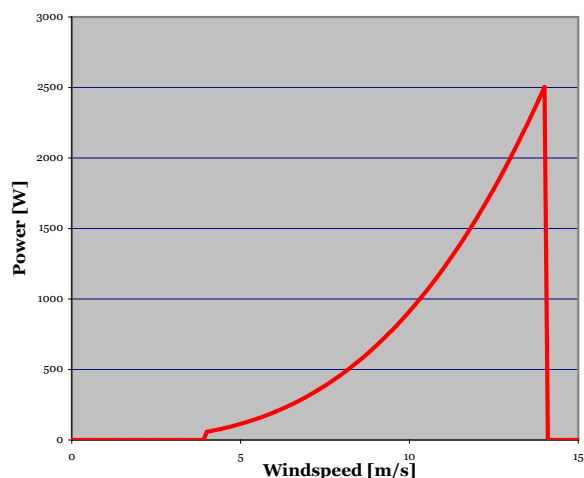


Operation Powercurve

Cut-in wind speed	4 m/s
Rated wind speed	14 m/s
Cut-out wind speed	14 m/s
Survival wind speed	55 m/s
Rated rotational speed	120 - 400 rpm
Rated blade speed	42 m/s
Rated power at 14 m/s	2.5 kW



Turbine

Overall height	2890 mm
Weight (inc. blades)	136 kg
Base flange	
Diameter	250 mm
Bolt circle	230 mm
Bolt holes	6 x M10
Rotor	
Diameter	1999 mm
Height	2650 mm
Rotorblades	
Number	3
Material	composite
Weight (3 blades)	14 kg

Generator

Type	3-phase synchronous permanent magnet generator	
Rated voltage	250 V	
Rated current	6.3 A	
Peak brake current	60 A	during 250 ms
Rated Power	2.5 kW	
Overload	20 %	120 min
	50 %	30 min
	100 %	10 min

Converter

Type	4 -quadrants AC-DC-AC		
Rated power	2.5 kW		
Peak power	3.0 kW		
Output	220-240 V	50 Hz	60 Hz in development
Weight	15 kg		
Integrated functions			
Control	Maximum Power Point tracker		
Start	Starting is achieved by the generator in motor operation		
Brake	Electrical, short circuiting of the generator		
Protection	Grid failure, anti-islanding, system faults, short circuit, mechanical faults, vibrations, blade rupture, imbalance.		
Overspeed protection	Two independent detection systems each triggering an independant brake action: - Generator frequency measurement in the converter - Generator voltage measurement on the generator terminals		

Standard masts

Spring supported

Height	5.0 meter		6.0 meter	
	Galvanised steel	Stainless steel	Galvanised steel	Stainless steel
Diameter	159 mm	168 mm	159 mm	168 mm
Weight	235 kg	219 kg	252 kg	232 kg

Freestanding

Height	7.5 meter		9.0 meter	
	Galvanised steel	Stainless steel	Galvanised steel	Stainless steel
Diameter	165 mm	168 mm	168 mm	168 mm
Weight	143 kg	154 kg	235 kg	263 kg

Standard foundations

Cross-frame HEA 160, galvanised

Basepoint	2 x 2 m	3 x 3 m	4 x 4 m	5 x 5 m
Weight	95 kg	160 kg	335 kg	550 kg

Tube

Height	3 m
Diameter	300 x 280 mm

Other masts and foundations than mentioned in the specification are possible on request

Above specifications are subject to change without preceeding announcement and not binding the manufacturer.