

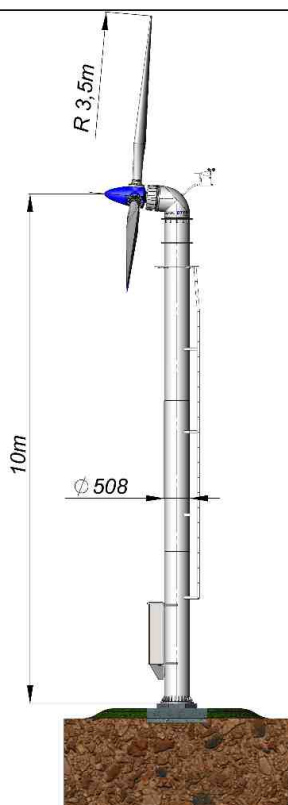
ZEFIR D7-P5-T10

For a holiday house



ZEFIR D7-P5-T10

TECHNICAL SPECIFICATION



MAIN PARAMETERS

Rotor diameter	7m
Rated power	5kW
Rated wind speed	8.8m/s
Start wind speed	3.0m/s ↑ i 15.0m/s ↓ (10 min. avg.)
Cut-out wind speed	2.0m/s ↓ i 20.0m/s ↑ (10 min. avg.)
Hub height	10m
Wind class	II (EN61400-2:2014)

ROTOR

Type	Upwind with active pitch control
Rotational speed range	50÷185rpm
Rotational direction	Clockwise
Blade material	Fiberglass reinforced with resin
Number of blades	3

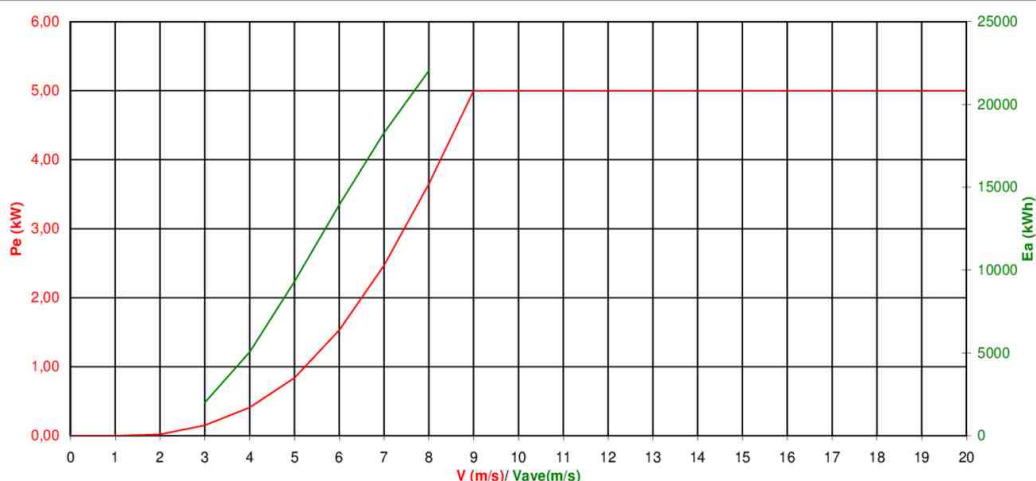
GENERATOR

Type	PMG
Rated power	5.5kW
Rated rpm	150rpm
Drive system	Direct drive

YAW SYSTEM

Type	Active with gear-motor drive
Yaw bearing	Slide bearing with annular wheel
Additional function	Cable twisting control

V (m/s)	Pe (kw)	Ea (kWh)
0	0,00	
1	0,00	
2	0,02	
3	0,15	2004
4	0,41	5059
5	0,84	9314
6	1,53	13952
7	2,47	18304
8	3,65	22031
9	5,00	
10	5,00	
11	5,00	
12	5,00	
13	5,00	
14	5,00	
15	5,00	
16	5,00	
17	5,00	
18	5,00	
19	5,00	
20	5,00	



DIMENSIONS AND WEIGHT

Steel tower diameter	∅508mm	Steel tower diameter at the top	∅508mm
Tower height	9.5m	Tower weight	1.35T,
Nacelle WxLxH	508x1550x720mm	Nacelle weight	533kG (without blades)
Number of segments	1	Access to the nacelle	External ladder
Rotor blade length	3.2m	Rotor blade weight	31kG
Control box AxBxH	800x300x1200mm	Control box weight	90kG
Inverter AxBxH	325x218x810mm	Inverter weight	26kG

SAFETY SYSTEM

CONTROL SYSTEM

Power limitation	Automatic pitch control system	Type	ZEFIR dedicated μ P control system
Braking system	Disc brake clamp on the main shaft	Location	In the base of the tower
Safety system concept	"Fail-safe" philosophy design	Remote monitoring	ZEFIR SCADA