

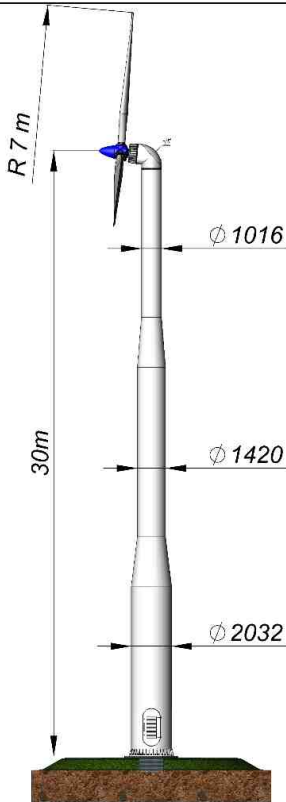
ZEFIR D14-P40-T30

For farm



ZEFIR D14-P40-T30

TECHNICAL SPECIFICATION



MAIN PARAMETERS

Rotor diameter	14m
Rated power	40kW
Rated wind speed	11.4m/s
Start wind speed	3.0m/s \uparrow i 15.0m/s \downarrow (10 min. avg.)
Cut-out wind speed	2.0m/s \downarrow i 20.0m/s \uparrow (10 min. avg.)
Hub height	30m
Wind class	II (EN61400-2:2014)

ROTOR

Type	Upwind with active pitch control
Rotational speed range	22÷90rpm
Rotational direction	Clockwise
Blade material	Fiberglass reinforced with resin
Number of blades	3

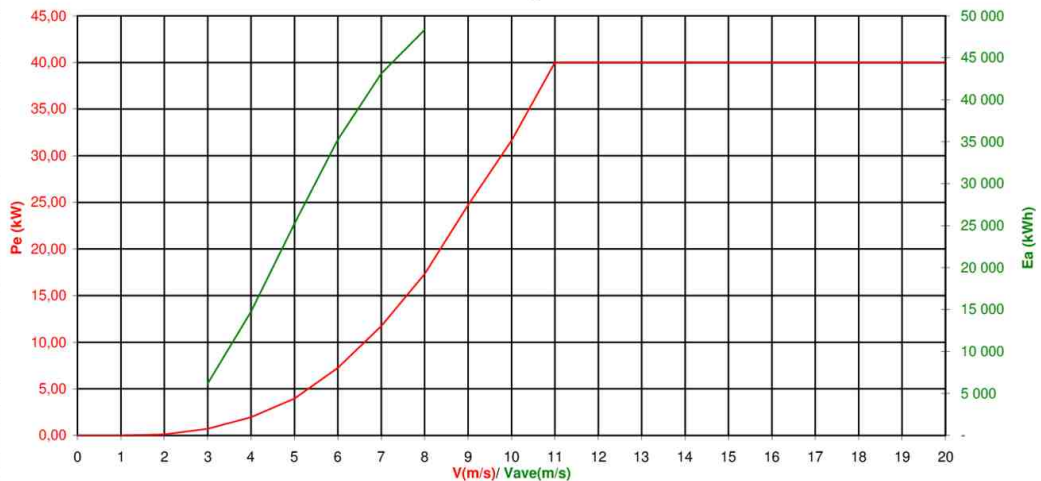
GENERATOR

Type	PMG
Rated power	44kW
Rated rpm	75rpm
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	0,10	
3	0,72	6 198
4	1,96	14 758
5	3,97	25 265
6	7,26	35 245
7	11,74	43 141
8	17,31	48 339
9	24,72	
10	31,64	
11	40,00	
12	40,00	
13	40,00	
14	40,00	
15	40,00	
16	40,00	
17	40,00	
18	40,00	
19	40,00	
20	40,00	



DIMENSIONS AND WEIGHT

Steel tower diameter	Ø2032mm	Steel tower diameter at the top	Ø1016mm
Tower height	29,4m	Tower weight	9,8T,
Nacelle WxLxH	1016x3080x1450mm	Nacelle weight	2717kG (without blades)
Number of segments	3	Access to the nacelle	Internal ladder
Rotor blade length	6.3m	Rotor blade weight	210kG
Control box AxBxH	800x300x1200mm	Control box weight	90kG
Inverter AxBxH	800x800x1700mm	Inverter weight	430kG

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