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# Wind Turbine Characteristics

## Technical information

POWER	
Rated power (kW)	2 000
Cut-in wind speed (m/s)	4
Rated wind speed (m/s)	12
Cut-out wind speed (m/s)	25
Wind class (IEC)	IEC II (7.5 – 8.5 m/s)
ROTOR	
Diameter (m)	90
Swept area (m <sup>2</sup> )	6 362
Number of blades	3
Rotor speed, max (rpm)	14.9
Tip speed (m/s)	70
Power density 1 (W/m <sup>2</sup> )	314.4
Power density 2 (m <sup>2</sup> /kW)	3.2
GEARBOX	
Type	Planetary/spur
Stages	3
GENERATOR	
Type	Asynchronous
Speed, max (rpm)	2 016
Voltage (V)	690
Grid frequency (Hz)	50
TOWER	
Hub height (m)	80
Type	Steel tube
Shape	Conical
Corrosion protection	Painted



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### Power Curve (air density 1.225 kg/m<sup>3</sup>)

Wind speed (m/s)	Power (W)
4	89
4.5	142
5	204
5.5	279
6	368
6.5	470
7	594
7.5	736
8	896
8.5	1069
9	1247
9.5	1428
10	1599
10.5	1753
11	1881
11.5	1951
12	1981
12.5	1994
13	1998
13.5	2000
14	2000
14.5	2000
15	2000
15.5	2000
16	2000
16.5	2000
17	2000
17.5	2000
18	2000
18.5	2000
19	2000
19.5	2000
20	2000
20.5	2000
21	2000
21.5	2000
22	2000
22.5	2000
23	2000
23.5	2000
24	2000
24.5	2000
25	2000