

TECHNICAL DATA

Turbine and generator manufacturer ROPATEC

Turbine model TVision (PUBLIENERGY)

Nominal power 3 kW

Wind speed

Start-up ca. 3 m/s

Cut-in ca. 4 m/s**

Cut-out ca. 17 m/s

Wind class according to IEC 61400-2 class IV

Generator Direct driven permanent magnets

Turbine wings material Carbon and glass fiber

Turbine diameter 3,3 m

Wing length 2,2 m

Over speed control Safety PLC controller SIL-3 (electrical and hydraulic brake)

Noise

Value ca. 42 dB

Wind speed 10 m/s

Distance from pole 20 m

Support

Pole height Standard 10,9 m

Weight

Turbine (without pole) ca. 620 kg

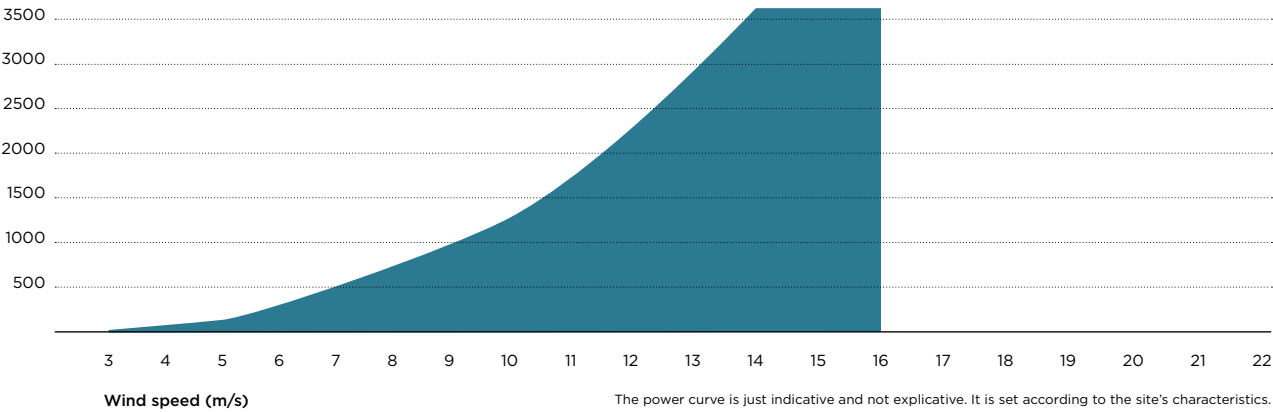
Monitoring system SDMR / SCADA (optional)

Operating temperature -20°C/+55°C

Operating altitude ≤ 2000 m a.s.l.

Power curve

Power (W)



The data reported reflect ideal work conditions; they are subject to change in relations to external factors such as temperature, altitude, atmospheric pressure, turbulence level, humidity and presence of obstructions.

* Annual Energy Production
Strongly depending on the wind shear and distribution factor.

** This value is an average of 10 minutes.

*** The data correspond to a laminar wind.

Power curve***

STANDARD	
Wind Speed (m/s)	Power (W)
3	26
4	64
5	132
6	239
7	397
8	618
9	919
10	1314
11	1820
12	2390
13	3073
14	3600
15	3600
16	3600

AEP *
Distribution K = 2
IEC 61400-12-1

Annual average wind	STANDARD kWh/year
5,5 m/s	2100
6 m/s	2800
7 m/s	4500