

GEO4K

VAWT 4 kW

Manufacturer: Kliux Energies
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Country: Spain

GEO4K references

Location	Type	País
Talleres Morte (Pradejón, La Rioja)	Off-Grid	Spain
Bayer Material Science (Tarragona)	Off-Grid	Spain
Golf course (Cirueña, La Rioja)	Internal On-Grid	Spain



Calculated Annual Energy (Rayleigh distribution, IEC61400-12)

Technical information

POWER	VALUE	UNITS
1) Maximum power	4	kW
2) Wind speed at maximum power	30'5	m/s
3) Cut-in wind speed	4	m/s
4) Cut-out wind speed	Not applicable	m/s
5) Survival wind speed	Not available	m/s
DIMENSIONS		
6) Rotor weight	116	kg
7) Rotor diameter	2	m
8) Rotor height	3	m
9) Rotor surface	6	m ²
10) Pole height	6	m
OTHER INFORMATION		
11) Maximum rotational speed	106	rpm
12) Number of blades	8	
13) Material of blades	Polyurethane	
14) Need for assisted-starting	No	
15) Braking system	Aerodynamic	
16) Yaw control	Not applicable: It is independent of wind direction	
17) Windward or leeward	Not applicable	
18) Gear box	Epicyclic gearing	
19) Kind of generator	Three-phase with neodymium permanent magnets	
20) Rated generator output voltage	235	Vac
21) Minimum working temperature	Not available	°C
22) Maximum working temperature	Not available	°C
23) Acoustic level at 20 m Acoustic level in the rotor (wind = 5 m/s)	Not available	dB
24) Total weight	501	kg
25) Durability	Not available	Years

Note: These data may vary without warning.

WIND AVERAGE (m/s)	ENERGY (kWh)
4	140
5	339
6	657
7	1.104
8	1.686
9	2.403
10	3.241
11	4.163

