Tumurly
Technology Systems

Vortex2.0

efficient , durable, reliable, technological

Tumurly® Vortex2.0 vertical wind turbine is an extremely durable and efficient wind turbine of the latest generation. Vortex2.0 wind turbine has a technological and highly efficient vertical blade design and a permanent magnet generator having strong N42 neodymium magnets with steel slots inside. In case the wind speed is over 3 m/s, the turbine will be rotating freely by exceeding this holding torqueThe maintenance-free sliding contact (slip ring) guarantees a good current flow and thereby no twisting of the cable in the pole. Vortex2.0 wind turbine generates AC Electricity to charge DC batteries or to feed an on-grid inverter to be connected to Grid.

technical data

Rated Power	2000 W (at 12 m/s)
Type	3 blades, vertical
Generator	Permanent magnet, brushless, gearless, maintenance- free
Housing Material	Aluminium
Operating Voltage	0 - 90 AC
Current	3-Phase-AC
Total Turbine Mass	65 kg
Max. Noise	30 dB
Life Expectancy	>25 years
Warranty	2 Years
Turbine Test Standarts	
European Directives	Machinery Directive (2006/42/EC)
	Low Voltage Equipment Directive (2014/35/EU)
	Electromagnetic Compatibility Directive (2014/30/EU)

Turbine Diameter	95 cm
Blade Heigh	80 cm
Blade Material	Aluminium
Weigh per rotor blades	200 g
Hub Flange	Cast Steel
Starting wind speed	3 m/s
Direction	in a clockwise direction
Blades Max. RPM	150
Breaking Method	EM Brake
European Standarts	EN IEC 61400-2:2014
	EN 60204-1:2018
	EN ISO 12100:2010
	EN IEC 61000-6-1:2019
	EN IEC 61000-6-2:2019

application

- Commercial and Industrial
- Residential and Resort
- Agricultural
- Remote Communities
- Off-Grid Power

key benefits

- Energy cost savings from wind generated power
- No scheduled maintenance
- Designed to reliably operate in harsh cold & hot climates
- Operation creates virtually no environmental impact
- Cost-effective and financially viable

Tumurly® Wind
Distributed Power

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