



Vortex1.0

efficient , durable, reliable, technological

Tumurly® Vortex1.0 vertical wind turbine is an extremely durable and efficient wind turbine of the latest generation. Vortex1.0 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 torque. The maintenance-free sliding contact (slip ring) guarantees a good current flow and thereby no twisting of the cable in the pole. Vortex1.0 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	1100 W (at 12 m/s)	Turbine Diameter	1000 mm
Type	3 blades, vertical	Blade Height	1050 mm
Generator	Permanent magnet, brushless, gearless, maintenance- free	Blade Material	Aluminium
Housing Material	Aluminium	Weight per rotor blades	550 g
Operating Voltage	0 - 90 AC	Hub Flange	Cast Steel
Current	3-Phase-AC	Starting wind speed	3 m/s
Total Turbine Mass	55 kg	Direction	in a clockwise direction
Max. Noise	30 dB	Blades Max. RPM	450
Life Expectancy	>25 years	Breaking Method	EM Brake
Warranty	2 Years		
Turbine Test Standards			
European Directives	Machinery Directive (2006/42/EC)	European Standards	EN IEC 61400-2:2014
	Low Voltage Equipment Directive (2014/35/EU)		EN 60204-1:2018
	Electromagnetic Compatibility Directive (2014/30/EU)		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

Tumurly Headquarter

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