

# Whirly1.0

vertical wind turbine is an extremely durable and efficient wind turbine of the latest generation. Whirly1.0 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. Whirly1.0 wind turbine generates AC Electricity to charge DC batteries or to feed an on-grid inverter to be connected to Grid.



## Application

- Commercial and Industrial
- Residential and Resort
- Agricultural
- Remote Areas
- 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

## Technical Data

### Whirly1.0 Wind Turbine

<b>Rated Power</b>	1100 W (at 12 m/s)	<b>Turbine Diameter</b>	1000 mm
<b>Type</b>	3 blades, vertical	<b>Blade Height</b>	1050 mm
<b>Generator</b>	Permanent magnet, brushless, gearless, Maintenance-free	<b>Blade Material</b>	Aluminium
<b>Housing Material</b>	Aluminium	<b>Weight per rotor blade</b>	550 g
<b>Operating Voltage</b>	0 - 90 AC	<b>Hub Flange</b>	Cast Steel
<b>Current</b>	3-Phase-AC	<b>Starting wind speed</b>	3 m/s
<b>Total Turbine Mass</b>	55 kg	<b>Direction</b>	in a clockwise direction
<b>Max. Noise</b>	30 dB	<b>Blades Max. RPM</b>	450
<b>Life Expectancy</b>	>25 Years	<b>Braking Method</b>	EM Brake
<b>Warranty</b>	2 Years	<b>European Standards</b>	EN IEC 61400-2:2014
<b>European Directives</b>	Machinery Directive (2006/42/EC)		EN 60204-1:2018
	Low Voltage Equipment Directive (2014/35/EU)		EN ISO 12100:2010
	Electromagnetic Compatibility Directive (2014/30/EU)		EN IEC 61000-6-1:2019
			EN IEC 61000-6-2:2019



## Highlights

